Safety Data Sheet Firestone Building Products Company

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **QuickPrime™ Plus LVOC**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Construction

1.3 Details of the supplier of the safety data sheet

Manufacturer • Firestone Building Products Company
250 West 96th Street
Indianapolis, IN 46260
United States

firestonemsds@bfdp.com

Telephone (General) • 800-428-4442

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

Manufacturer • (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Flammable Liquids 2 - H225
Aspiration 1 - H304
Skin Irritation 2 - H315
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Reproductive Toxicity 2 - H361d
Specific Target Organ Toxicity Repeated Exposure 2 - H373

DSD/DPD • Highly Flammable (F)
Irritant (Xi)
Harmful (Xn)
Substances Toxic To Reproduction - Category 3
R11, R38, R48/20, R63, R65, R67

2.2 Label Elements

CLP

DANGER

Hazard statements

- H225 - Highly flammable liquid and vapour
  H304 - May be fatal if swallowed and enters airways
  H315 - Causes skin irritation
  H336 - May cause drowsiness or dizziness
  H361d - Suspected of damaging the unborn child.
  H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

- P201 - Obtain special instructions before use.
  P202 - Do not handle until all safety precautions have been read and understood.
  P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  P233 - Keep container tightly closed.
  P240 - Ground and/or bond container and receiving equipment.
  P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
  P242 - Use only non-sparking tools.
  P243 - Take precautionary measures against static discharge.
  P260 - Do not breathe mists, vapours, and/or spray.
  P264 - Wash thoroughly after handling.
  P271 - Use only outdoors or in a well-ventilated area.
  P280 - Wear protective gloves and eye/face protection , .
  P281 - Use personal protective equipment as required.

Response

- P370+P378 - In case of fire: Use appropriate media for extinction.
  P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
  P314 - Get medical advice/attention if you feel unwell.
  P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  P321 - Specific treatment, see supplemental first aid information.
  P332+P313 - If skin irritation occurs: Get medical advice/attention.
  P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  P331 - Do NOT induce vomiting.
  P308+P313 - IF exposed or concerned: Get medical advice/attention.

Storage/Disposal

- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
  P235 - Keep cool.
  P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD

Risk phrases

- R11 - Highly flammable.
  R38 - Irritating to skin.
  R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
  R63 - Possible risk of harm to the unborn child.
  R65 - Harmful: may cause lung damage if swallowed.
  R67 - Vapours may cause drowsiness and dizziness.

Safety phrases

- S9 - Keep container in a well ventilated place
  S16 - Keep away from sources of ignition - No Smoking.
  S37 - Wear suitable gloves.

2.3 Other Hazards

CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 2
  Aspiration 1
  Skin Irritation 2
  Eye Irritation 2
  Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
  Reproductive Toxicity 2
  Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements

- Highly flammable liquid and vapour
  May be fatal if swallowed and enters airways
  Causes skin irritation
  Causes serious eye irritation
  May cause drowsiness or dizziness
  Suspected of damaging fertility or the unborn child.
  May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

- Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  Keep container tightly closed.
  Ground and/or bond container and receiving equipment.
  Use explosion-proof electrical/ventilating/lighting/equipment.
  Use only non-sparking tools.
  Take precautionary measures against static discharge.
  Do not breathe mists, vapours, and/or spray.
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves and eye/face protection , .

Response

- In case of fire: Use appropriate media for extinction.
  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  Call a POISON CENTER or doctor/physician if you feel unwell.
  Get medical advice/attention if you feel unwell.
  If on skin: Wash with plenty of water .
  Take off contaminated clothing and wash before reuse.
  Specific treatment, see supplemental first aid information.
  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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  Do NOT induce vomiting.
  IF exposed or concerned: Get medical advice/attention.

Storage/Disposal

- Store in a well-ventilated place. Keep container tightly closed.
  Keep cool.
  Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Flammable Liquids - B2
  Other Toxic Effects - D2A
  Other Toxic Effects - D2B

2.2 Label elements

WHMIS

- Flammable Liquids - B2
  Other Toxic Effects - D2A
  Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
1-Chloro-4-(trifluoromethyl) benzene	**CAS:**98-56-6 **EC Number:**202-681-1	50% TO 100%	Ingestion/Oral-Rat LD50 • 13 g/kg Inhalation-Rat LC50 • 22 g/m³	**EU DSD/DPD:** Not Classified **EU CLP:** Not Classified **OSHA HCS 2012:** Not Classified	NDA
Toluene	**CAS:**108-88-3 **EC Number:**203-625-9 **EU Index:**601-021-00-3	5% TO 20%	Ingestion/Oral-Rat LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m³ 4 Hour(s) Skin-Rabbit LD50 • 14100 µL/kg	**EU DSD/DPD:** Annex VI, Table 3.2: F; R11; Repr. 3; R63; Xn; R48/20-65; Xi; R38; R67 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2*, H373; Skin Irrit. 2, H315; STOT SE 3: Narc., H336 **OSHA HCS 2012:** Flam. Liq. 2; Repr. 2; Acute Tox. 4 (orl); STOT SE 3: Narc.; Asp. Tox. 1; Eye Irrit. 2; Skin Irrit. 2	NDA

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention.

Skin

- Wash skin with soap and water. If irritation develops and persists, get medical

attention.

Eye
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion
- Do NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Carbon dioxide, sand, extinguishing powder.

Unsuitable Extinguishing Media
- Do not use water.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
Containers may explode when heated.
Vapor explosion hazard indoors, outdoors or in sewers.
Many liquids are lighter than water.
Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
Runoff to sewer may create fire or explosion hazard.
Vapors may form explosive mixtures with air.
Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products
- No data available

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
Move containers from fire area if you can do it without risk.
LARGE FIRES: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.
Stop leak if safe to do so.
If leak cannot be stopped, and if there is no risk to the surrounding area, let the fire burn itself out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breath mist/vapours/spray. Avoid contact with skin, eyes, and clothing.

Emergency Procedures
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel

away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Use clean non-sparking tools to collect absorbed material.
A vapor suppressing foam may be used to reduce vapors.
All equipment used when handling the product must be grounded.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Keep away from heat, sparks and open flame. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist/vapours/spray. Avoid contact with skin, eyes, and clothing. Do not ingest. Take precautionary measures against static charges. Bond and ground all transfer containers and equipment. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near container. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep container tightly closed. Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Protect from sunlight.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	**ACGIH**	**Australia**	**Belgium**	**Canada Alberta**	**Canada British Columbia**
Toluene (108-88-3)	STELs	Not established	150 ppm STEL; 574 mg/m3 STEL	100 ppm STEL; 384 mg/m3 STEL	Not established	Not established
	TWAs	20 ppm TWA	50 ppm TWA; 191 mg/m3 TWA	22 ppm TWA; 77 mg/m3 TWA	50 ppm TWA; 188 mg/m3 TWA	20 ppm TWA

Exposure Limits/Guidelines (Con't.)						
	Result	**Canada Manitoba**	**Canada New Brunswick**	**Canada Northwest Territories**	**Canada Nova Scotia**	**Canada Nunavut**
Toluene (108-88-3)	TWAs	20 ppm TWA	50 ppm TWA; 188 mg/m3 TWA	100 ppm TWA; 375 mg/m3 TWA	20 ppm TWA	100 ppm TWA; 375 mg/m3 TWA
	STELs	Not established	Not established	150 ppm STEL; 560 mg/m3 STEL	Not established	150 ppm STEL; 560 mg/m3 STEL

Exposure Limits/Guidelines (Con't.)						
	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China
Toluene (108-88-3)	STELs	Not established	Not established	Not established	150 ppm STEL; 560 mg/m3 STEL	100 mg/m3 STEL
	TWAs	20 ppm TWA	50 ppm TWAEV; 188 mg/m3 TWAEV	50 ppm TWA	100 ppm TWA; 375 mg/m3 TWA	50 mg/m3 TWA

Exposure Limits/Guidelines (Con't.)						
	Result	Cyprus	Denmark	Europe	Germany DFG	Germany TRGS
Toluene (108-88-3)	STELs	100 ppm STEL; 384 mg/m3 STEL	Not established	100 ppm STEL; 384 mg/m3 STEL	Not established	Not established
	TWAs	50 ppm TWA; 192 mg/m3 TWA	25 ppm TWA; 94 mg/m3 TWA	50 ppm TWA; 192 mg/m3 TWA	Not established	50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 190 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)
	Ceilings	Not established	Not established	Not established	200 ppm Peak; 760 mg/m3 Peak	Not established
	MAKs	Not established	Not established	Not established	50 ppm TWA MAK; 190 mg/m3 TWA MAK	Not established

Exposure Limits/Guidelines (Con't.)			
	Result	NIOSH	OSHA
Toluene (108-88-3)	Ceilings	Not established	300 ppm Ceiling
	TWAs	100 ppm TWA; 375 mg/m3 TWA	200 ppm TWA
	STELs	150 ppm STEL; 560 mg/m3 STEL	Not established

Exposure Control Notations

China

•Toluene (108-88-3): **Skin:** (Skin notation)

Canada Quebec

•Toluene (108-88-3): **Skin:** (Skin designation)

Cyprus

•Toluene (108-88-3): **Skin:** (Skin-potential for cutaneous absorption)

ACGIH

•Toluene (108-88-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Germany TRGS

•Toluene (108-88-3): **Skin:** (skin notation)

Germany DFG

•Toluene (108-88-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

Exposure Limits Supplemental

ACGIH

•Toluene (108-88-3): **BEIs:** (0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene; 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene; 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)) | **TLV Basis - Critical Effects:** (female reproductive; pregnancy loss; visual impairment)

8.2 Exposure controls

Engineering Measures/Controls

- This material is designed to be used outdoors, in roofing applications. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety goggles.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

BEI = Biological Exposure Indices

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Black liquid with a characteristic odor.
Color	Black	Odor	Characteristic
Odor Threshold	Data lacking		
General Properties			
Boiling Point	110 C(230 F)	Melting Point	Not relevant
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 1.2	Water Solubility	Not miscible or difficult to mix.
Viscosity	Data lacking	Explosive Properties	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	29 hPa @ 20 C(68 F)	Vapor Density	Data lacking
Evaporation Rate	Data lacking	VOC (Wt.)	1.9 lbs/gal
VOC (Vol.)	224 g/L		
Flammability			
Flash Point	4 C(39.2 F)	UEL	7 %
LEL	1.2 %	Autoignition	Data lacking

Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat. Avoid flames, sparks, or other sources of ignition.

10.5 Incompatible materials

- Strong oxidizers, acids, and bases.

10.6 Hazardous decomposition products

- Carbon monoxide, carbon dioxide, and hydrocarbons.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
1-Chloro-4-(trifluoromethyl) benzene (50% TO 100%)	98-56-6	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 13 g/kg; Inhalation-Rat LC50 • 22 g/m³; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 500 ppm 6 Hour(s) 4 Week(s)-Intermittent; *Blood*:**Changes in serum composition (e.g., TP, bilirubin cholesterol)**; *Nutritional and Gross Metabolic:Changes in Chemistry or Temperature*:**Ca**; *Biochemical:Metabolism (intermediary)*:**Other proteins**
Toluene (5% TO 20%)	108-88-3	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 636 mg/kg; Inhalation-Rat LC50 • 49 g/m³ 4 Hour(s); Skin-Rabbit LD50 • 14100 µL/kg; **Irritation:** Eye-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg • Moderate irritation; **Mutagen:** Sister chromatid exchange • Inhalation-Human • 252 µg/L 19 Year(s); **Reproductive:** Inhalation-Rat TCLo • 2000 ppm 6 Hour(s)(7-17D preg); *Reproductive Effects:Maternal Effects*:**Other effects**; *Reproductive Effects:Effects on Newborn*:**Physical**

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Aspiration Hazard	**EU/CLP** • Aspiration 1 **OSHA HCS 2012** • Aspiration 1
Carcinogenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking

Germ Cell Mutagenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Skin corrosion/Irritation	**EU/CLP** • Skin Irritation 2 **OSHA HCS 2012** • Skin Irritation 2
Skin sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
STOT-RE	**EU/CLP** • Specific Target Organ Toxicity Repeated Exposure 2 **OSHA HCS 2012** • Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	**EU/CLP** • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects **OSHA HCS 2012** • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	**EU/CLP** • Toxic to Reproduction 2 **OSHA HCS 2012** • Toxic to Reproduction 2
Respiratory sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Serious eye damage/Irritation	**EU/CLP** • Data lacking **OSHA HCS 2012** • Eye Irritation 2

Target Organs
- |[206]|

Potential Health Effects

Inhalation

Acute (Immediate)
- May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)
- No data available

Skin

Acute (Immediate)
- Causes skin irritation.

Chronic (Delayed)
- No data available.

Eye

Acute (Immediate)
- Causes serious eye irritation.

Chronic (Delayed)
- No data available.

Ingestion

Acute (Immediate)
- Material may be aspirated into the lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

Chronic (Delayed)
- No data available.

Other

Chronic (Delayed)
- May cause damage to organs through prolonged or repeated exposure.

Reproductive Effects
- May cause adverse reproductive effects - such as birth defects, miscarriages or infertility based on animal data.

Key to abbreviations

LC = Lethal Concentration
LD = Lethal Dose
TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1133	Adhesives	NDA	II	NDA
TDG	UN1133	ADHESIVES	NDA	II	NDA
IMO/IMDG	UN1133	ADHESIVES	NDA	II	NDA
ADN	UN1133	ADHESIVES	NDA	II	NDA
ADR/RID	UN1133	ADHESIVES	NDA	II	NDA
IATA/ICAO	UN1133	Adhesives	NDA	II	NDA

14.6 Special precautions for user
- None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
- Acute, Chronic, Fire

State Right To Know				
Component	**CAS**	**MA**	**NJ**	**PA**

1-Chloro-4-(trifluoromethyl) benzene	98-56-6	No	No	No
Toluene	108-88-3	Yes	Yes	Yes

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**China**	**EU EINECS**	**EU ELNICS**
1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Yes	No	Yes	Yes	No
Toluene	108-88-3	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	**CAS**	**Japan ENCS**	**Korea KECL**	**TSCA**
1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Australia - High Volume Industrial Chemicals List

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	

Australia - List of Designated Hazardous Substances - Classification

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	F, Xn, Xi Repr.Cat.3 R11, R63, R48/20, R65, R38, R67

Environment

Australia - National Pollutant Inventory (NPI) Substance List

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	10 tonne/yr Threshold category 1

Australia - Ozone Protection Act - Scheduled Substances

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Australia - Priority Existing Chemical Program

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Candidate chemical

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Bulgaria

Environment

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	0.25 mg/m3 MAHCL

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	B2, D2A, D2B

Canada - WHMIS - Ingredient Disclosure List

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	1 %

Environment

Canada - CEPA - Priority Substances List

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Priority Substance List 1 (substance not considered toxic)

Other

Canada - Accelerated Reduction/Elimination of Toxics (ARET)

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

China

Other

China - Annex I & II - Controlled Chemicals Lists

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Solvents in a wide range of products including paints, coatings and cooling lubricants (listed under Organic solvents)

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	F Xn R:11-38-48/20-63-65-67 S:(2)-36/37-46-62

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	S:(2)-36/37-46-62

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Environment

Germany - TA Luft - Types and Classes

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed

• Toluene	108-88-3	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	ID Number 1112, hazard class 2 - hazard to waters
• Toluene	108-88-3	ID Number 194, hazard class 2 - hazard to waters

Germany - Water Classification (VwVwS) - Annex 3

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	1000 lb final RQ; 454 kg final RQ

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	1.0 % de minimis concentration

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	waste number U220

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	0.080 mg/L (wastewater); 10 mg/kg (nonwastewater)

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	waste number U220

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed

• Toluene	108-88-3	developmental toxicity, initial date 1/1/91

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	7000 µg/day MADL (level represents absorbed dose)

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	female reproductive toxicity, initial date 8/7/09

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	Not Listed
• Toluene	108-88-3	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 16 - Other Information

Last Revision Date
- 20/February/2015

Preparation Date
- 29/December/2014

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Key to abbreviations

NDA = No data available