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 • **Firestone Cleaner (500 ml can)**

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
200 4th Avenue S
Nashville, TN 37201-2208
United States

firestonemsds@bfdp.com

Telephone (General) • 800-428-4442

Supplier • Firestone Building Products Europe
Ikaroslaan 75
1930 Zaventem
Belgium

firestonemsds@bfdp.com

Telephone (General) • +32 2 711 44 50

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

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

Supplier • +1 (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 Aerosols 1 - H222
Aspiration 1 - H304
Skin Irritation 2 - H315
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Hazardous to the aquatic environment Chronic 2 - H411

DSD/DPD • Extremely Flammable (F+)
Irritant (Xi)
Dangerous to the Environment (N)
R12, R38, R67, R51/53

2.2 Label Elements

CLP

DANGER

Hazard statements

- H222 - Extremely flammable aerosol
- H229 - Pressurised container: May burst if heated
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H336 - May cause drowsiness or dizziness
- H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention

- P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
- P211 - Do not spray on an open flame or other ignition source.
- P251 - Pressurized container: Do not pierce or burn, even after use.
- P261 - Avoid breathing mist/vapours/spray.
- P264 - Wash thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves .

Response

- 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.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P362 - Take off contaminated clothing and wash before reuse.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P321 - Specific treatment, see supplemental first aid information.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 - Do NOT induce vomiting.
- P391 - Collect spillage.

Storage/Disposal

- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD

Risk phrases

- R12 - Extremely flammable.
- R38 - Irritating to skin.
- R67 - Vapours may cause drowsiness and dizziness.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

- S9 - Keep container in a well ventilated place
- S16 - Keep away from sources of ignition - No Smoking.
- S57 - Use appropriate containment to avoid environmental contamination.

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 Aerosols 1
  Aspiration 1
  Skin Irritation 2
  Eye Irritation 2
  Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
  Germ Cell Mutagenicity 2
  Reproductive Toxicity 2
  Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements

- Extremely flammable aerosol
  May be fatal if swallowed and enters airways
  Causes skin irritation
  Causes serious eye irritation
  May cause drowsiness or dizziness
  Suspected of causing genetic defects.
  Suspected of damaging fertility or the unborn child.
  May cause damage to organs - Eyes through prolonged or repeated exposure via Inhalation

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.
  Do not spray on an open flame or other ignition source.
  Do not breathe mist/vapours/spray.
  Wash thoroughly after handling.
  Pressurized container: Do not pierce or burn, even after use.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves/protective clothing/eye protection/face protection.

Response

- 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.
  If on skin: Wash with plenty of water.
  Take off contaminated clothing and wash before reuse.
  If skin irritation occurs: Get medical advice/attention.
  Specific treatment, see supplemental first aid information.
  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.
  Get medical advice/attention if you feel unwell.

Storage/Disposal

- Store in a well-ventilated place. Keep container tightly closed.
  Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF.
  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 Aerosols - B5
  Other Toxic Effects - D2A
  Other Toxic Effects - D2B

2.2 Label elements

WHMIS

- 

WHMIS

- Flammable Aerosols - B5
  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 in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Naphtha (petroleum), hydrotreated light	**CAS:**64742-49-0 **EC Number:**265-151-9 **EU Index:**649-328-00-1	50% TO 100%	NDA	**EU DSD/DPD:** Annex VI, Table 3.2: F R11 Xn R65 Xi R38 N R51/53 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3: Narc., H336; Aquatic Chronic 2, H411 **OSHA HCS 2012:** Flam. Liq. 2; Asp. Tox. 1; Skin Irrit. 2; STOT SE 3: Narc.	NDA
Isopropyl alcohol	**CAS:**67-63-0 **EC Number:**200-661-7 **EU Index:**603-117-00-0	3% TO 10%	Inhalation-Rat LC50 • 16000 ppm 8 Hour(s) Skin-Rabbit LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg	**EU DSD/DPD:** Annex VI, Table 3.2: F R11 Xi R36 R67 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336 **OSHA HCS 2012:** Flam. Liq. 2; Eye Irrit. 2; Muta. 2; Repr. 2; STOT SE 3: Narc.; STOT RE 2 (Eyes, Inhl)	NDA
Carbon dioxide	**CAS:**124-38-9 **EC Number:**204-696-9	3% TO 10%	Inhalation-Rat LC50 • 470000 ppm 30 Minute(s)	**EU DSD/DPD:** Not Classified **EU CLP:** Self Classified: Press. Gas - Comp., H280 **OSHA HCS 2012:** Press. Gas - Comp.; Simp. Asphyx.	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. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If signs/symptoms continue, 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
- If material is ingested and aspirated into the lungs it may cause chemical pneumonitis. Treat appropriately.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- LARGE FIRES: Water spray, fog or alcohol-resistant foam.
  SMALL FIRES: Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media
- Do not use a direct stream of water.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Containers may explode when heated.
  Vapor explosion hazard indoors, outdoors or in sewers.
  HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
  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: Cool containers with flooding quantities of water until well after fire is out.
  LARGE FIRES: Dike fire-control water for later disposal.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

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

avoid direct contact.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stay upwind. Keep out of low areas. Keep unauthorized personnel away. 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

- SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
  Use clean non-sparking tools to collect absorbed material.
  All equipment used when handling the product must be grounded.
  LARGE SPILLS: Dike far ahead of spill for later disposal.
  A vapor suppressing foam may be used to reduce vapors.

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 flame – No Smoking. Keep containers closed. Vapors of this material are heavier than air and will collect in low or confined areas. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near container. Static electricity may accumulate and create a fire hazard. Take precautionary measures against static charges. Bond and ground all transfer containers and equipment. Use only with adequate ventilation. Wear appropriate personal protective equipment. Ground fixed equipment. Do not breathe (dust, vapor or spray mist)

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Store locked up. Keep container closed when not in use. Keep away from incompatible materials.

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**
Carbon dioxide (124-38-9)	STELs	30000 ppm STEL	30000 ppm STEL; 54000 mg/m3 STEL	30000 ppm STEL; 54784 mg/m3 STEL	30000 ppm STEL; 54000 mg/m3 STEL	15000 ppm STEL
	TWAs	5000 ppm TWA	5000 ppm TWA; 9000 mg/m3 TWA; 12500 ppm TWA (in coal mines); 22500 mg/m3 TWA (in coal mines)	5000 ppm TWA; 9131 mg/m3 TWA	5000 ppm TWA; 9000 mg/m3 TWA	5000 ppm TWA
Isopropyl alcohol	STELs	400 ppm STEL	500 ppm STEL; 1230 mg/m3 STEL	400 ppm STEL; 1000 mg/m3 STEL	400 ppm STEL; 984 mg/m3 STEL	400 ppm STEL

(67-63-0)	TWAs	200 ppm TWA	400 ppm TWA; 983 mg/m3 TWA	200 ppm TWA; 500 mg/m3 TWA	200 ppm TWA; 492 mg/m3 TWA	200 ppm TWA

Exposure Limits/Guidelines (Con't.)

	Result	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut
Carbon dioxide (124-38-9)	STELs	30000 ppm STEL	30000 ppm STEL; 54000 mg/m3 STEL	15000 ppm STEL; 27000 mg/m3 STEL	30000 ppm STEL	15000 ppm STEL; 27000 mg/m3 STEL
	TWAs	5000 ppm TWA	5000 ppm TWA; 9000 mg/m3 TWA	5000 ppm TWA; 9000 mg/m3 TWA	5000 ppm TWA	5000 ppm TWA; 9000 mg/m3 TWA
Isopropyl alcohol (67-63-0)	STELs	400 ppm STEL	500 ppm STEL; 1230 mg/m3 STEL	500 ppm STEL; 1228 mg/m3 STEL	400 ppm STEL	500 ppm STEL; 1228 mg/m3 STEL
	TWAs	200 ppm TWA	400 ppm TWA; 983 mg/m3 TWA	400 ppm TWA; 983 mg/m3 TWA	200 ppm TWA	400 ppm TWA; 983 mg/m3 TWA

Exposure Limits/Guidelines (Con't.)

	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China
Carbon dioxide (124-38-9)	STELs	30000 ppm STEL	30000 ppm STEV; 54000 mg/m3 STEV	Not established	15000 ppm STEL; 27000 mg/m3 STEL	18000 mg/m3 STEL
	TWAs	5000 ppm TWA	5000 ppm TWAEV; 9000 mg/m3 TWAEV	5000 ppm TWA	5000 ppm TWA; 9000 mg/m3 TWA	9000 mg/m3 TWA
Isopropyl alcohol (67-63-0)	STELs	400 ppm STEL	500 ppm STEV; 1230 mg/m3 STEV	Not established	500 ppm STEL; 1225 mg/m3 STEL	700 mg/m3 STEL
	TWAs	200 ppm TWA	400 ppm TWAEV; 985 mg/m3 TWAEV	200 ppm TWA	400 ppm TWA; 980 mg/m3 TWA	350 mg/m3 TWA

Exposure Limits/Guidelines (Con't.)

	Result	Cyprus	Denmark	Europe	Germany DFG	Germany TRGS
Carbon dioxide (124-38-9)	TWAs	5000 ppm TWA; 9000 mg/m3 TWA	5000 ppm TWA; 9000 mg/m3 TWA	5000 ppm TWA; 9000 mg/m3 TWA	Not established	5000 ppm TWA AGW (exposure factor 2); 9100 mg/m3 TWA AGW (exposure factor 2)
	Ceilings	Not established	Not established	Not established	10000 ppm Peak; 18200 mg/m3 Peak	Not established
	MAKs	Not established	Not established	Not established	5000 ppm TWA MAK; 9100 mg/m3 TWA MAK	Not established
Isopropyl alcohol (67-63-0)	TWAs	Not established	200 ppm TWA; 490 mg/m3 TWA	Not established	Not established	200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 500 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 2)
	Ceilings	Not established	Not established	Not established	400 ppm Peak; 1000 mg/m3 Peak	Not established

	MAKs	Not established	Not established	Not established	200 ppm TWA MAK; 500 mg/m3 TWA MAK	Not established

Exposure Limits/Guidelines (Con't.)			
	Result	**NIOSH**	**OSHA**
Carbon dioxide (124-38-9)	TWAs	5000 ppm TWA; 9000 mg/m3 TWA	5000 ppm TWA; 9000 mg/m3 TWA
	STELs	30000 ppm STEL; 54000 mg/m3 STEL	Not established
Isopropyl alcohol (67-63-0)	TWAs	400 ppm TWA; 980 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA
	STELs	500 ppm STEL; 1225 mg/m3 STEL	Not established

Exposure Control Notations
Germany DFG
•Isopropyl alcohol (67-63-0): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

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 glasses.

Skin/Body
- Wear appropriate gloves. Wear protective clothing

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
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
STEV = Short Term Exposure Value
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 Basic Physical and Chemical Properties

Material Description			
Physical Form	Aerosol	Appearance/Description	Aerosol with a characteristic odor.
Color	According to product specification.	Odor	Characteristic
Odor Threshold	Data lacking		
General Properties			
Boiling Point	78 °C(172.4 °F)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Not relevant
Specific Gravity/Relative Density	Data lacking	Density	0.747 g/cm³ @ 20 C
Water Solubility	Immiscible	Viscosity	Data lacking
Explosive Properties	Not explosive.	Oxidizing Properties:	Data lacking

Volatility			
Vapor Pressure	5 Bar @ 20 C	Vapor Density	Data lacking
Evaporation Rate	Data lacking	VOC (Vol.)	96.5 %
Flammability			
Flash Point	-9 °C(15.8 °F)	UEL	12 %
LEL	0.8 %	Autoignition	Data lacking
Flammability (solid, gas)	Not relevant.		
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

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

10.5 Incompatible materials

- No data available

10.6 Hazardous decomposition products

- None known.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Isopropyl alcohol (3% TO 10%)	67-63-0	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 5000 mg/kg; *Behavioral*:**General anesthetic**; Inhalation-Rat LC50 • 16000 ppm 8 Hour(s); Inhalation-Guinea Pig TCLo • 980 mg/m³ 24 Hour(s); *Sense Organs and Special Senses:Ear*:**Other**; *Behavioral*:**General anesthetic**; *Lungs, Thorax, or Respiration*:**Other changes**; Skin-Rabbit LD50 • 12800 mg/kg; **Irritation:** Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg • Mild irritation; **Multi-dose Toxicity:** Inhalation-Mouse TCLo • 5000 ppm 6 Hour(s) 13 Week(s)-Intermittent; *Behavioral*:**General anesthetic**; *Behavioral*:**Ataxia**; *Liver*:**Changes in liver weight**; Inhalation-Rat TCLo • 1000 mg/m³ 6 Hour(s) 4 Week(s)-Intermittent; *Sense Organs and Special Senses:Eye*:**Optic nerve neuropathy**; Inhalation-Rat TCLo • 500 mg/m³ 4 Hour(s) 122 Day(s)-Intermittent; *Liver*:**Multiple effects**; *Kidney, Ureter, and Bladder*:**Other changes**; *Nutritional and Gross Metabolic:Gross Metabolite Changes*:**Weight loss or decreased weight gain**; Inhalation-Rat TCLo • 20 mg/m³ 24 Hour(s) 90 Day(s)-Continuous; *Brain and Coverings*:**Other degenerative changes**; *Lungs, Thorax, or Respiration*:**Other changes**; *Liver*:**Multiple effects**; Inhalation-Rat TCLo • 100 mg/m³ 4 Hour(s) 17 Week(s)-Intermittent; *Kidney, Ureter, and Bladder*:**Other changes in urine composition**; *Blood*:**Changes in serum composition (e.g., TP, bilirubin cholesterol)**; *Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels*:**True cholinesterase**; **Mutagen:** Cytogenetic analysis • Inhalation-Rat • 1030 µg/m³ 16 Week(s)-Intermittent; **Reproductive:** Inhalation-Rat TCLo • 3500 ppm 7 Hour(s)(1-19D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; Inhalation-Rat TCLo • 10000 ppm 7 Hour(s)(1-19D preg);

		Reproductive Effects:Effects on Fertility:**Pre-implantation mortality**; *Reproductive Effects:Effects on Fertility*:**Post-implantation mortality**; *Reproductive Effects:Effects on Embryo or Fetus*:**Fetal death**; Inhalation-Rat TCLo • 7000 ppm 7 Hour (s)(1-19D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**
Carbon dioxide (3% TO 10%)	124-38-9	**Acute Toxicity:** Inhalation-Rat LC50 • 470000 ppm 30 Minute(s); **Reproductive:** Inhalation-Rat TCLo • 6 pph 24 Hour(s)(10D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; *Reproductive Effects:Specific Developmental Abnormalities*:**Cardiovascular (circulatory) system**; *Reproductive Effects:Specific Developmental Abnormalities*:**Respiratory system**

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Skin corrosion/Irritation	**EU/CLP** • Skin Irritation 2 **OSHA HCS 2012** • Skin Irritation 2
Serious eye damage/Irritation	**EU/CLP** • Data lacking **OSHA HCS 2012** • Eye Irritation 2
Skin sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Respiratory sensitization	**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** • Germ Cell Mutagenicity 2
Toxicity for Reproduction	**EU/CLP** • Data lacking **OSHA HCS 2012** • Toxic to Reproduction 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
STOT-RE	**EU/CLP** • Data lacking **OSHA HCS 2012** • Specific Target Organ Toxicity Repeated Exposure 2

Potential Health Effects

Inhalation

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

Chronic (Delayed)
- Animal test data shows prolonged and repeated inhalation of Isopropyl alcohol, a component of this material, causes damage to the eyes.

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.

Mutagenic Effects
- Repeated and prolonged exposure may cause mutagenic effects.

Reproductive Effects
- Suspected of damaging fertility or the unborn child.

Key to abbreviations
LC = Lethal Concentration
LD = Lethal Dose

Section 12 - Ecological Information

12.1 Toxicity

	CAS	
Firestone Cleaner (500 ml can)	NDA	**Aquatic Toxicity-Fish:** 96 Hour(s) LC50 *Lepomis macrochirus (Bluegill)* >1400 mg/L Comments: Data for Isopropyl alcohol (67-63-0) **Aquatic Toxicity-Crustacea:** 24 Hour(s) EC50 Water Flea *Daphnia magna* 9714 mg/L Comments: Data for Isopropyl alcohol (67-63-0) **Aquatic Toxicity-Algae and Other Aquatic Plant(s):** 24 Hour(s) EC50 Algae *Chlorococcales (Green Algae Order)* 1000 mg/L Comments: Data for Isopropyl alcohol (67-63-0)

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
Potential Environmental Effects
- May cause long lasting harmful effects to aquatic life.

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
- Containers, even those that have been emptied, can contain explosive vapors. 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	UN1950	Aerosols, flammable	2.1	NDA	NDA
TDG	UN1950	AEROSOLS, flammable	2.1	NDA	Potential Marine Pollutant

IMO/IMDG	UN1950	AEROSOLS (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT	2.1	NDA	Marine Pollutant
ADN	UN1950	NDA	2.1	NDA	NDA
ADR/RID	UN1950	AEROSOLS, ENVIRONMENTALLY HAZARDOUS	2.1	NDA	NDA
IATA/ICAO	UN1950	AEROSOLS, flammable	2.1	NDA	NDA

14.6 Special precautions for user
- None specified.

14.7 Transport in bulk according to Annex II of Marpol 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
- Pressure(Sudden Release of), Acute, Chronic, Fire

State Right To Know				
Component	**CAS**	**MA**	**NJ**	**PA**
Carbon dioxide	124-38-9	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes
Naphtha (petroleum), hydrotreated light	64742-49-0	No	No	No

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**China**	**EU EINECS**	**EU ELNICS**
Carbon dioxide	124-38-9	Yes	No	Yes	Yes	No
Isopropyl alcohol	67-63-0	Yes	No	Yes	Yes	No
Naphtha (petroleum), hydrotreated light	64742-49-0	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	**CAS**	**Japan ENCS**	**Korea KECL**	**TSCA**
Carbon dioxide	124-38-9	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes
Naphtha (petroleum), hydrotreated light	64742-49-0	Yes	Yes	Yes

Australia

Labor

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Australia - High Volume Industrial Chemicals List

• Naphtha (petroleum), hydrotreated light	64742-49-0
• Carbon dioxide	124-38-9

• Isopropyl alcohol	67-63-0	

Australia - List of Designated Hazardous Substances - Classification

• Naphtha (petroleum), hydrotreated light	64742-49-0	Xn Carc.Cat.2, Muta.Cat.2 R45, R46, R65
• Carbon dioxide	124-38-9	Self classification required
• Isopropyl alcohol	67-63-0	F, Xi R11, R36, R67

Environment

Australia - National Pollutant Inventory (NPI) Substance List

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Australia - Ozone Protection Act - Scheduled Substances

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Australia - Priority Existing Chemical Program

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Candidate chemical

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Bulgaria

Environment

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	0.6 mg/m3 MAHCL

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	0.6 mg/m3 MAHCL

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	A; Uncontrolled product according to WHMIS

		classification criteria (solid)
• Isopropyl alcohol	67-63-0	B2, D2B (including 70%)

Canada - WHMIS - Ingredient Disclosure List

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	1 %
• Isopropyl alcohol	67-63-0	1 %

Environment

Canada - 2004 NPRI (National Pollutant Release Inventory)

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Part 1, Group 1 Substance; Part 5 Substance

Canada - 2005 NPRI (National Pollutant Release Inventory)

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Part 1, Group 1 Substance; Part 5 Substance

Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	1 GWP
• Isopropyl alcohol	67-63-0	Not Listed

Canada - CEPA - Priority Substances List

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Canada - DWQ (Drinking Water Quality) - IMACs

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Other

Canada - Accelerated Reduction/Elimination of Toxics (ARET)

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Canada New Brunswick

Environment

Canada - New Brunswick - Ozone Depleting Substances - Schedule A

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Canada - New Brunswick - Ozone Depleting Substances - Schedule B

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

China

Other

China - Annex I & II - Controlled Chemicals Lists

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Europe

Other

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	F; R11 Xi; R36 R67

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	T R:45-46-65 S:53-45
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	F Xi R:11-36-67 S:(2)-7-16-24/25-26

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	P
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	S:53-45
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	S:(2)-7-16-24/25-26

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Environment

Germany - TA Luft - Types and Classes

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	ID Number 256, not considered hazardous to water
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	ID Number 135, hazard class 1 - low hazard to waters

Germany - Water Classification (VwVwS) - Annex 3

• Naphtha (petroleum), hydrotreated light	64742-49-0	ID Number 2502, hazard class 3 - severe hazard to waters
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Mexico

Other

Mexico - Hazard Classifications

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Hazard Class = 2.2 UN1013; Hazard Class = 9 PG = III UN1845; Hazard Class = 2.3 UN2187
• Isopropyl alcohol	67-63-0	Hazard Class = 3 PG = II UN1219

Mexico - Regulated Substances

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	UN1013; UN1845; UN2187
• Isopropyl alcohol	67-63-0	UN1219

United States

Labor

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

Environment

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

United States - California

Environment

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

United States - Pennsylvania

Labor

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed

• Isopropyl alcohol	67-63-0	
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H225 - Highly flammable liquid and vapour
  H280 - Contains gas under pressure; may explode if heated
  H319 - Causes serious eye irritation

  R11 - Highly flammable.
  R36 - Irritating to eyes.
  R65 - Harmful: may cause lung damage if swallowed.

Revision Date
- 05/March/2018

Preparation Date
- 08/April/2014

Other Information
- Changes to this revision: Updated mailing address.

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Key to abbreviations

NDA = No Data Available