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
- **SA-Solvent Based (SB) Primer, Enverge™ Solvent Based Primer, SBEPro™ SB Primer, V-Force™ SB Primer**

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

Relevant identified use(s)
- Primer used to enhance adhesion of self-adhesive membranes on porous surfaces

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

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 2015/830]

2.1 Classification of the substance or mixture

CLP
- Flammable Liquids 2 - H225
  Aspiration 1 - H304
  Skin Irritation 2 - H315
  Eye Irritation 2 - H319
  Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
  Germ Cell Mutagenicity 1B - H340
  Carcinogenicity 1B - H350
  Reproductive Toxicity 2 - H361f
  Specific Target Organ Toxicity Repeated Exposure 2 - H373
  Hazardous to the aquatic environment Acute 1 - H400
  Hazardous to the aquatic environment Chronic 1 - H410

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
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects.
H350 - May cause cancer.
H361f - Suspected of damaging fertility.
H373 - May cause damage to organs through prolonged or repeated exposure.
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

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, hot surfaces, sparks, open flames and other ignition sources. 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.
  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/protective clothing/eye protection/face protection.

Response

- P370+P378 - In case of fire: Use appropriate media for extinction.
  P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  P312 - Call a POISON CENTER/doctor if you feel unwell.
  P302+P352 - IF ON SKIN: Wash with plenty of water.
  P362+P364 - Take off contaminated clothing and wash it before reuse.
  P321 - Specific treatment, see supplemental first aid information.
  P332+P313 - If skin irritation occurs: Get medical advice/attention.
  P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P337+P313 - If eye irritation persists: Get medical advice/attention.
  P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
  P331 - Do NOT induce vomiting.
  P308+P313 - IF exposed or concerned: Get medical advice/attention.
  P314 - Get medical advice/attention if you feel unwell.
  P391 - Collect spillage.

Storage/Disposal

- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
  P235 - Keep cool.
  P405 - Store locked up.
  P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

CLP

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

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
  Eye Irritation 2
  Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
  Reproductive Toxicity 2
  Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements

- Highly flammable liquid and vapour
  May be fatal if swallowed and enters airways
  Causes serious eye irritation
  May cause drowsiness or dizziness
  Suspected of damaging fertility or the unborn child.
  Causes 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 mist, vapours and/or spray.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves/protective clothing/eye protection/face protection.

Response

- In case of fire: Use appropriate media for extinction.
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  Call a POISON CENTER/doctor if you feel unwell.
  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  Take off immediately all contaminated clothing.
  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/doctor.
  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.
  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 2015

2.1 Classification of the substance or mixture

WHMIS 2015

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

Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

WHMIS 2015

DANGER

Hazard statements

- Highly flammable liquid and vapour
  May be fatal if swallowed and enters airways
  Causes serious eye irritation
  May cause drowsiness or dizziness
  Suspected of damaging fertility or the unborn child.
  Causes 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  Keep container tightly closed.
  Use non-sparking tools.
  Take action to prevent static discharges.
  Ground and bond container and receiving equipment.
  Use explosion-proof electical/ventilating/lighting/ equipment.
  Do not breathe mist, vapours and/or spray.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves/protective clothing/eye protection/face protection.

Response

- In case of fire: Use appropriate media for extinction.
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  Call a POISON CENTER/doctor if you feel unwell.
  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
  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/doctor.
  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.
  Keep cool.
  Store locked up.
  Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

WHMIS 2015

- 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**
Naphtha (petroleum), hydrotreated light	**CAS:**64742-49-0 **EC Number:**265-151-9 **EU Index:**649-328-00-1	30% TO 60%	NDA	**EU CLP:** Annex VI, Table 3.1: Carc. 1B, H350; Muta. 1B, H340; Asp. Tox. 1, H304 **OSHA HCS 2012:** Not Classified **WHMIS 2015:** Not Classified	NDA
Hexane *[0% TO 60%]*	**CAS:**110-54-3 **EC Number:**203-777-6 **EU Index:**601-037-00-0	*0% TO 60%*	Ingestion/Oral-Rat LD50 • 15840 mg/kg Inhalation-Rat LC50 • 48000 ppm 4 Hour(s)	**EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Skin Irrit. 2, H315; Repr. 2, H361f; STOT SE 3: Narc., H336; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411 **OSHA HCS 2012:** Flam. Liq. 2; Eye Irrit. 2; Repr. 2 (Inhl); STOT SE 3: Narc.; STOT RE 1 (CNS/Inhl, PNS/Inhl); Asp. Tox. 1 **WHMIS 2015:** Flam. Liq. 2; Eye Irrit. 2; Repr. 2 (inhl); STOT SE 3: Narc.; STOT RE 1 (CNS/Inhl, PNS/Inhl); Asp. Tox. 1	NDA
Heptane *[0% TO 60%]*	**CAS:**142-82-5 **EC Number:**205-563-8 **EU Index:**601-008-00-2	*0% TO 60%*	Inhalation-Rat LC50 • 48000 ppm 4 Hour(s)	**EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Skin Irrit. 2, H315; STOT SE 3: Narc., H336 (Inhalation); Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 **OSHA HCS 2012:** Flam. Liq. 2; STOT SE 3: Narc. (Inhl); Asp. Tox. 1 **WHMIS 2015:** Flam. Liq. 2; STOT SE 3: Narc. (Inhl); Asp. Tox. 1	NDA
Acetone	**CAS:**67-64-1 **EC Number:**200-662-2 **EU Index:**606-001-00-8	15% TO 40%	Ingestion/Oral-Rat LD50 • 5800 mg/kg Inhalation-Rat LC50 • 50100 mg/m³ 8 Hour (s)	**EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066; **OSHA HCS 2012:** Flam. Liq. 2; Eye Irrit. 2; Repr. 2 (Inhl); STOT SE 3: Narc. **WHMIS 2015:** Flam. Liq. 2; Eye Irrit. 2; Repr. 2 (Inhl); STOT SE 3: Narc.	NDA

See Section 16 for full text of H-statements.

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
- In case of burns, immediately cool affected skin for as long as possible with cold water. Donot remove clothing if adhering to skin. Remove and isolate contaminated clothing. 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

- 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

- 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

- Irritating and/or toxic gases or fumes may be generated by thermaldecomposition or combustion.
  Toxic and/or irritating gases or fumes can emanate from empty containers when submitted to high temperatures: CO, CO2, Aldehydes, ketone, acrolein, halogenated compound.

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

- 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 breathe 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**
Heptane (142-82-5)	STELs	500 ppm STEL (listed under Heptane, all isomers)	500 ppm STEL; 2050 mg/m3 STEL	500 ppm STEL; 2085 mg/m3 STEL	500 ppm STEL; 2050 mg/m3 STEL	500 ppm STEL
	TWAs	400 ppm TWA (listed under Heptane, all isomers)	400 ppm TWA; 1640 mg/m3 TWA	400 ppm TWA; 1664 mg/m3 TWA	400 ppm TWA; 1640 mg/m3 TWA	400 ppm TWA
Hexane (110-54-3)	TWAs	50 ppm TWA	20 ppm TWA; 72 mg/m3 TWA	20 ppm TWA; 72 mg/m3 TWA	50 ppm TWA; 176 mg/m3 TWA	20 ppm TWA
Acetone (67-64-1)	STELs	500 ppm STEL	1000 ppm STEL; 2375 mg/m3 STEL	1000 ppm STEL; 2420 mg/m3 STEL	750 ppm STEL; 1800 mg/m3 STEL	500 ppm STEL
	TWAs	250 ppm TWA	500 ppm TWA; 1185 mg/m3 TWA	500 ppm TWA; 1210 mg/m3 TWA	500 ppm TWA; 1200 mg/m3 TWA	250 ppm TWA

Exposure Limits/Guidelines (Con't.)						
	Result	**Canada Manitoba**	**Canada New Brunswick**	**Canada Northwest Territories**	**Canada Nova Scotia**	**Canada Nunavut**

Heptane (142-82-5)	STELs	500 ppm STEL (listed under Heptane, all isomers)	500 ppm STEL; 2050 mg/m3 STEL	500 ppm STEL	500 ppm STEL (listed under Heptane, all isomers)	500 ppm STEL
	TWAs	400 ppm TWA (listed under Heptane, all isomers)	400 ppm TWA; 1640 mg/m3 TWA	400 ppm TWA	400 ppm TWA (listed under Heptane, all isomers)	400 ppm TWA
Hexane (110-54-3)	TWAs	50 ppm TWA	50 ppm TWA; 176 mg/m3 TWA	50 ppm TWA	50 ppm TWA	50 ppm TWA
	STELs	Not established	Not established	62.5 ppm STEL	Not established	62.5 ppm STEL
Acetone (67-64-1)	STELs	500 ppm STEL	750 ppm STEL; 1782 mg/m3 STEL	750 ppm STEL	500 ppm STEL	750 ppm STEL
	TWAs	250 ppm TWA	500 ppm TWA; 1188 mg/m3 TWA	500 ppm TWA	250 ppm TWA	500 ppm TWA

Exposure Limits/Guidelines (Con't.)

	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	Denmark
Heptane (142-82-5)	TWAs	400 ppm TWA	400 ppm TWAEV; 1640 mg/m3 TWAEV	400 ppm TWA	400 ppm TWA; 1600 mg/m3 TWA	200 ppm TWA; 820 mg/m3 TWA
	STELs	500 ppm STEL (listed under Heptane, all isomers)	500 ppm STEV; 2050 mg/m3 STEV	Not established	500 ppm STEL; 2000 mg/m3 STEL	Not established
Hexane (110-54-3)	TWAs	50 ppm TWA	50 ppm TWAEV; 176 mg/m3 TWAEV	50 ppm TWA	100 ppm TWA; 360 mg/m3 TWA	20 ppm TWA; 72 mg/m3 TWA
	STELs	Not established	Not established	Not established	125 ppm STEL; 450 mg/m3 STEL	Not established
Acetone (67-64-1)	TWAs	500 ppm TWA	500 ppm TWAEV; 1190 mg/m3 TWAEV	500 ppm TWA	1000 ppm TWA; 2400 mg/m3 TWA	250 ppm TWA; 600 mg/m3 TWA
	STELs	750 ppm STEL	1000 ppm STEV; 2380 mg/m3 STEV	Not established	1250 ppm STEL; 3000 mg/m3 STEL	Not established

Exposure Limits/Guidelines (Con't.)

	Result	Europe	Germany DFG	Germany TRGS	NIOSH	OSHA
Heptane (142-82-5)	TWAs	Not established	Not established	500 ppm TWA AGW (all isomers, exposure factor 1); 2100 mg/m3 TWA AGW (all isomers, exposure factor 1)	85 ppm TWA; 350 mg/m3 TWA	500 ppm TWA; 2000 mg/m3 TWA
	Ceilings	Not established	500 ppm Peak; 2100 mg/m3 Peak	Not established	440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)	Not established
	MAKs	Not established	500 ppm TWA MAK; 2100 mg/m3 TWA MAK	Not established	Not established	Not established
Hexane (110-54-3)	TWAs	20 ppm TWA; 72 mg/m3 TWA	Not established	50 ppm TWA AGW (exposure factor 8); 180 mg/m3 TWA AGW (exposure factor 8)	50 ppm TWA; 180 mg/m3 TWA	500 ppm TWA; 1800 mg/m3 TWA
	Ceilings	Not established	400 ppm Peak; 1440 mg/m3 Peak	Not established	Not established	Not established
	MAKs	Not established	50 ppm TWA MAK; 180 mg/m3 TWA MAK	Not established	Not established	Not established

Acetone (67-64-1)	TWAs	Not established	Not established	500 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); 1200 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)	250 ppm TWA; 590 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA
	Ceilings	Not established	1000 ppm Peak; 2400 mg/m3 Peak	Not established	Not established	Not established
	MAKs	Not established	500 ppm TWA MAK; 1200 mg/m3 TWA MAK	Not established	Not established	Not established

Exposure Control Notations

Germany DFG

- Heptane (142-82-5): **Pregnancy:** (classification not yet possible)
- Hexane (110-54-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- Acetone (67-64-1): **Pregnancy:** (risk to embryo/fetus probable)

8.2 Exposure controls

Engineering Measures/Controls

- 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/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced. Minimize breathing mist/vapor/spray.

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

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

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

TWAEV = Time-Weighted Average Exposure Value

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Red liquid with a strong solvent odor.
Color	Red	Odor	Solvent
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 0.77 Water=1	Water Solubility	Insoluble
Viscosity	250 Centipoise (cPs, cP) or mPas	Explosive Properties	Not explosive.
Oxidizing Properties:	Not an oxidizer.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	> 1 Air=1
Evaporation Rate	Data lacking	VOC (Wt.)	Data lacking
Flammability			
Flash Point	-23 °C(-9.4 °F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Flammable Liquid.		
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

- Open flames, sparks, electrostatic discharge, heat and other ignition sources; prolonged exposure to direct sunlight.

10.5 Incompatible materials

- Strong acids, strong oxidizing and reducing agents, basis, halogenated compounds.

10.6 Hazardous decomposition products

- During a fire, irritating/toxic gases, such as carbon monoxide, carbon dioxide and other toxic and irritating compounds, such as formaldehyde, methanol, acetic acid, hydrogen peroxide, methane and ethylene oxide may be formed, depending on fire conditions.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Heptane (0% TO 60%)	142-82-5	**Acute Toxicity:** Inhalation-Rat LC50 • 48000 ppm 4 Hour(s); Inhalation-Human TCLo • 1000 ppm 6 Minute(s); *Behavioral*:**Hallucinations, distorted perceptions**; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 420 mg/m³ 12 Hour(s) 2 Week(s)-Intermittent; *Brain and Coverings*:**Other degenerative changes**; *Liver*:**Other changes**; *Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels*:**Cytochrome oxidases (including oxidative phosphorylation)**; Inhalation-Rat TCLo • 2970 ppm 26 Week(s)-Intermittent; *Behavioral*:**Somnolence (general depressed activity)**; *Lungs, Thorax, or Respiration*:**Dyspnea**; *Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels*:**Phosphatases**
Hexane (0% TO 60%)	110-54-3	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 15840 mg/kg; Ingestion/Oral-Rat LD50 • 29700 mg/kg; *Behavioral*:**Somnolence (general depressed activity)**; *Gastrointestinal*:**Changes in structure or function of salivary glands**; *Gastrointestinal*:**Hypermotility, diarrhea**; Ingestion/Oral-Rat TDLo • 20000 mg/kg; *Reproductive Effects:Paternal Effects*:**Spermatogenesis**; *Reproductive Effects:Paternal Effects*:**Prostate, seminal vesicle, Cowper's gland, accessory glands**; Inhalation-Rat LC50 • 48000 ppm 4 Hour(s); **Irritation:** Eye-Rabbit • 10 mg • Mild irritation; **Multi-dose Toxicity:** Inhalation-Human TCLo • 190 mg/m³ 6 Year(s)-Intermittent; *Peripheral Nerve and Sensation*:**Paresthesis**; **Reproductive:** Ingestion/Oral-Mouse TDLo • 238 g/kg (6-15D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; Inhalation-Rat TCLo • 5000 ppm (6-19D preg); *Reproductive Effects:Maternal Effects*:**Other effects**; *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; **Tumorigen / Carcinogen:** Inhalation-Mouse TCLo • 9018 ppm 6 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Neoplastic by RTECS criteria**; *Liver*:**Tumors**; Inhalation-Rat TCLo • 1000 ppm 4 Hour(s) 59 Week(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Reproductive Effects:Tumorigenic Effects*:**Testicular tumors**
Acetone (15% TO 40%)	67-64-1	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 5800 mg/kg; Ingestion/Oral-Rat LD50 • 5800 mg/kg; *Behavioral*:**Altered sleep time (including change in righting reflex)**; *Behavioral*:**Tremor**; Inhalation-Rat LC50 • 50100 mg/m³; Skin-Guinea Pig LD50 • >9400 µL/kg; **Irritation:** Eye-Rabbit • 20 mg • Severe irritation; Skin-Rabbit • 395 mg-Open • Mild irritation; **Mutagen:** Sex chromosome loss & nondisjunction • Inhalation-Mouse • 12 g/L; Cytogenetic analysis • Unreported Route-Hamster • Fibroblast (Somatic cell) • 40 g/L; **Reproductive:** Ingestion/Oral-Rat TDLo • 273 g/kg (13W male); *Reproductive Effects:Paternal Effects*:**Spermatogenesis**; Inhalation-Mouse TCLo • 6600 ppm (6-17D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; *Reproductive Effects:Effects on Fertility*:**Post-implantation mortality**; Inhalation-Rat TCLo • 30 mg/m³ (1-13D 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 • 11000 ppm (6-19D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Other developmental abnormalities**

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met **WHMIS 2015** • Classification criteria not met
Skin corrosion/Irritation	**EU/CLP** • Skin Irritation 2 **OSHA HCS 2012** • Classification criteria not met **WHMIS 2015** • Classification criteria not met
Serious eye damage/Irritation	**EU/CLP** • Eye Irritation 2 **OSHA HCS 2012** • Eye Irritation 2 **WHMIS 2015** • Eye Irritation 2
Skin sensitization	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met **WHMIS 2015** • Classification criteria not met
Respiratory sensitization	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met **WHMIS 2015** • Classification criteria not met

Aspiration Hazard	**EU/CLP** • Aspiration 1 **OSHA HCS 2012** • Aspiration 1 **WHMIS 2015** • Aspiration 1
Carcinogenicity	**EU/CLP** • Carcinogenicity 1B; May cause cancer **OSHA HCS 2012** • Classification criteria not met **WHMIS 2015** • Classification criteria not met
Germ Cell Mutagenicity	**EU/CLP** • Germ Cell Mutagenicity 1B **OSHA HCS 2012** • Classification criteria not met **WHMIS 2015** • Classification criteria not met
Toxicity for Reproduction	**EU/CLP** • Toxic to Reproduction 2 **OSHA HCS 2012** • Toxic to Reproduction 2 **WHMIS 2015** • 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 **WHMIS 2015** • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	**EU/CLP** • Specific Target Organ Toxicity Repeated Exposure 2 **OSHA HCS 2012** • Specific Target Organ Toxicity Repeated Exposure 1 **WHMIS 2015** • Specific Target Organ Toxicity Repeated Exposure 1

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)
- Chronic exposure to hexane may produce peripheral neuropathy (motor sensory) and CNS abnormalities.

Mutagenic Effects
- Animal tests for components show repeated and prolonged exposure may cause mutagenic effects.

Carcinogenic Effects
- Repeated and prolonged exposure may cause cancer.

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
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

Components		
Heptane (0% TO 60%)	142-82-5	**Aquatic Toxicity-Fish:** 96 Hour(s) LC50 *Oreochromis mossambicus (Mozambique Tilapia)* 375 mg/L Comments: Acute Toxicity of n-Heptane and n-Hexane on Worm and Fish
Hexane (0% TO 60%)	110-54-3	**Aquatic Toxicity-Fish:** 96 Hour(s) LC50 *Fathead minnow* 2.1 mg/L **Aquatic Toxicity-Crustacea:** 48 Hour(s) EC50 *Water Flea (Daphnia magna)* 3.878 mg/L

- This material may be toxic to aquatic organisms and cause long-term adverse effects in the aquatic environment.

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	3	II	NDA
TDG	UN1133	ADHESIVES	3	II	NDA
IMO/IMDG	UN1133	ADHESIVES	3	II	NDA
ADN	UN1133	ADHESIVES	3	II	NDA
ADR/RID	UN1133	ADHESIVES	3	II	NDA
IATA/ICAO	UN1133	Adhesives	3	II	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 • Acute, Chronic, Fire

State Right To Know				
Component	**CAS**	**MA**	**NJ**	**PA**
Acetone	67-64-1	Yes	Yes	Yes
Heptane	142-82-5	Yes	Yes	Yes
Hexane	110-54-3	Yes	Yes	Yes
Naphtha (petroleum), hydrotreated light	64742-49-0	No	No	No

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**EU EINECS**	**EU ELNICS**	**Japan ENCS**
Acetone	67-64-1	Yes	No	Yes	No	Yes
Heptane	142-82-5	Yes	No	Yes	No	Yes
Hexane	110-54-3	Yes	No	Yes	No	Yes
Naphtha (petroleum), hydrotreated light	64742-49-0	Yes	No	Yes	No	No

Inventory (Con't.)			
Component	**CAS**	**Korea KECL**	**TSCA**
Acetone	67-64-1	Yes	Yes
Heptane	142-82-5	Yes	Yes
Hexane	110-54-3	Yes	Yes
Naphtha (petroleum), hydrotreated light	64742-49-0	Yes	Yes

Australia

Labor

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Australia - High Volume Industrial Chemicals List

• Naphtha (petroleum), hydrotreated light	64742-49-0	
• Acetone	67-64-1	
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	

Australia - List of Designated Hazardous Substances - Classification

• Naphtha (petroleum), hydrotreated light	64742-49-0	Xn Carc.Cat.2, Muta.Cat.2 R45, R46, R65
• Acetone	67-64-1	F, Xi R11, R36, R66, R67

• Heptane	142-82-5	F, Xn, Xi, N R11, R65, R38, R67, R50, R53
• Hexane	110-54-3	F, Xn, Xi, N Repr.Cat.3 R11, R62, R48/20, R65, R38, R67, R51, R53

Environment

Australia - National Pollutant Inventory (NPI) Substance List

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	10 tonne/yr Threshold category 1
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	10 tonne/yr Threshold category 1

Australia - Ozone Protection Act - Scheduled Substances

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Australia - Priority Existing Chemical Program

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Bulgaria

Environment

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	0.35 mg/m3 MAHCL
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	0.35 mg/m3 MAHCL
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	60.0 mg/m3 MAHCL

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	B2, D2B
• Heptane	142-82-5	B2, D2B
• Hexane	110-54-3	B2, D2A, D2B

Canada - WHMIS 1988 - Ingredient Disclosure List

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	1 %
• Heptane	142-82-5	1 %
• Hexane	110-54-3	1 %

Environment

Canada - CEPA - Priority Substances List

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Solvents

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
• Acetone	67-64-1	F; R11 Xi; R36 R66 R67
• Heptane	142-82-5	F; R11 Xi; R38 N; R50-53 Xn; R65 R67
• Hexane	110-54-3	F; R11 Xi; R38 N; R51-53 Repr.Cat.3; R62 Xn; R65-48/20 R67

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	5%<=C: Xn; R:48/20

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
• Acetone	67-64-1	F Xi R:11-36-66-67 S:(2)-9-16-26
• Heptane	142-82-5	F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62

• Hexane	110-54-3	F Xn N R:11-38-48/20-62-65-67-51/53 S:(2)-9-16-29-33-36/37-61-62

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	P
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	C
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	S:53-45
• Acetone	67-64-1	S:(2)-9-16-26
• Heptane	142-82-5	S:(2)-9-16-29-33-60-61-62
• Hexane	110-54-3	S:(2)-9-16-29-33-36/37-61-62

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Environment

Germany - TA Luft - Types and Classes

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	ID Number 6, hazard class 1 - low hazard to waters
• Heptane	142-82-5	ID Number 120, hazard class 2 - hazard to waters
• Hexane	110-54-3	ID Number 124, hazard class 2 - 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
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	ID Number 120, hazard class 2 - hazard to waters
• Hexane	110-54-3	Not Listed

United States

Labor

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

Environment

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	5000 lb final RQ; 2270 kg final RQ
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	5000 lb final RQ; 2270 kg final RQ

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	1.0 % de minimis concentration

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Included in waste stream: F039
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	

• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	0.28 mg/L (wastewater); 160 mg/kg (nonwastewater)
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	waste number U002 (ignitable waste)
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

United States - California

Environment

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

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

• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	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
• Acetone	67-64-1	
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
• Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Acetone	67-64-1	Not Listed
• Heptane	142-82-5	Not Listed
• Hexane	110-54-3	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H411 - Toxic to aquatic life with long lasting effects
  EUH066 - Repeated exposure may cause skin dryness or cracking.

Revision Date
- 29/January/2018

Preparation Date
- 20/May/2013

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

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Key to abbreviations

NDA = No Data Available