

Safety Data Sheet



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

1.1 Product identifier

- Product Name** • Synthetic Gun Oil Aerosol
- Product Code** • 44126; 44135; 44140; GOA10; GOA2; GOA6

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

- Relevant identified use(s)** • Superior Gun Oil for firearm metal parts

1.3 Details of the supplier of the safety data sheet

- Manufacturer** • Birchwood Casey, LLC
7887 Fuller Road, Suite 100
Eden Prairie, MN 55344
United States
www.birchwoodcasey.com
Customerservice@birchwoodcasey.com
- Telephone (General)** • 952-388-6717

NZ DISTRIBUTOR
Steve's Wholesale Ltd.
Units 5 – 7 / 408 The
Esplanade
Island Bay Wellington 6023
team@steveswholesale.nz
Emergency Contact: Steve
Collings
0800 303 303
0274 905 708
Poison Control 0800
POISON (0800 764 766)

1.4 Emergency telephone number

- Manufacturer** • 1-800-424-9300 - CHEMTREC

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 2 - H223
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
Skin Irritation 2 - H315
- DSD/DPD**
- Highly Flammable (F)
Irritant (Xi)
R11, R38

2.2 Label Elements

CLP

WARNING



Hazard statements • H223 - Flammable aerosol

H315 - Causes skin irritation

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.
 - P264 - Wash thoroughly after handling.
 - P280 - Wear protective gloves .
- Response**
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P321 - Specific treatment, see supplemental first aid information.
 - P332+P313 - If skin irritation occurs: Get medical advice/attention.
 - P362 - Take off contaminated clothing and wash before reuse.
- Storage/Disposal**
- P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

DSD/DPD

- Risk phrases**
- R11 - Highly flammable.
 - R38 - Irritating to skin.
- Safety phrases**
- S9 - Keep container in a well ventilated place
 - S16 - Keep away from sources of ignition - No Smoking.

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 2
 - Skin Irritation 2
 - Eye Irritation 2A
 - Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
 - Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

2.2 Label elements

OSHA HCS 2012

DANGER

- Hazard statements**
- Flammable aerosol
 - Causes skin irritation
 - Causes serious eye irritation
 - May cause respiratory irritation
 - May cause drowsiness or dizziness

Precautionary statements

- Prevention**
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 - Do not spray on an open flame or other ignition source.
 - Pressurized container: Do not pierce or burn, even after use.
 - Avoid breathing fume/gas/mist/vapours/spray.
 - Wash thoroughly after handling.
 - Use only outdoors or in a well-ventilated area.

- Wear protective gloves and eye/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 soap and water.
Specific treatment, see supplemental first aid information.
Take off contaminated clothing and wash before reuse.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
- Storage/Disposal** ● Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
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 - D2B

2.2 Label elements

WHMIS



- Flammable Aerosols - B5
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
	CAS:64742-48-9 EC			EU DSD/DPD: EU CLP, Annex VI, Table 3.2: Carc.Cat.2, R45; Muta.Cat.2, R46;	

Hydrotreated heavy naphtha	Number: 265-150-3 EU Index: 649-327-00-6	< 45%	NDA	Xn, R65 EU CLP: Annex VI, Table 3.1: Carc. 1B, H350; Muta. 1B, H340; Asp. Tox. 1, H304 OSHA HCS 2012: Data lacking	NDA
Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	CAS: 64742-53-6 EC Number: 265-156-6 EU Index: 649-466-00-2	< 20%	NDA	EU DSD/DPD: EU CLP, Annex VI, Table 3.2: Carc.Cat.2, R45 EU CLP: EU CLP, Annex VI, Table 3.1: Carc. 1B, H350 OSHA HCS 2012: Skin Irrit. 2	NDA
Propane	CAS: 74-98-6 EC Number: 200-827-9 EU Index: 601-003-00-5	< 15%	NDA	EU DSD/DPD: EU CLP, Annex VI, Table 3.2: F+, R12 EU CLP: Annex VI, Table 3.1: Flam. Gas 1, H220; Press. Gas - Comp., H280 OSHA HCS 2012: Flam. Gas 1; Press. Gas - Comp.; Simp. Asphyx.	NDA
Butane	CAS: 106-97-8 EC Number: 203-448-7 EU Index: 601-004-00-0	< 15%	Inhalation-Rat LC50 • 658 g/m ³ 4 Hour(s)	EU DSD/DPD: EU CLP, Annex VI, Table 3.2: F+, R12 EU CLP: Annex VI, Table 3.1: Flam. Gas 1, H220; Press. Gas - Comp., H280 OSHA HCS 2012: Flam. Gas 1; Press. Gas - Comp.; Simp. Asphyx.	NDA
Isopropyl alcohol	CAS: 67-63-0 EC Number: 200-661-7 EU Index: 603-117-00-0	< 5%	Inhalation-Rat LC50 • 16000 ppm 8 Hour(s) Skin-Rabbit LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg	EU DSD/DPD: EU CLP, 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; STOT SE 3: Narc.	NDA
Synthetic copolymer	NDA	< 3%	NDA	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking	NDA

See Section 16 for full text of H-statements and R-phrases.

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. If signs/symptoms continue, get medical attention.

Skin

- Wash skin with soap and water. Remove and isolate contaminated clothing. If skin irritation occurs: Get medical advice/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

- If victim is conscious, give 1 – 2 glasses of water. 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 ● Water spray, carbon dioxide, dry chemical.

Unsuitable Extinguishing Media ● No data available

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.

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 breathe fume, mist, vapours and/or spray. Avoid contact with skin, eyes or 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

- Avoid contact with heat and ignition sources. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe fume, mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Take precautionary measures against static charges. Empty containers may still have product residue and flammable vapors. Do not puncture or incinerate 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

- Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Do not store where temperature may exceed 120°F.

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	Canada Ontario	Canada Quebec	China	Germany DFG
Isopropyl alcohol (67-63-0)	STELs	400 ppm STEL	400 ppm STEL	500 ppm STEV; 1230 mg/m ³ STEV	700 mg/m ³ STEL	Not established
	TWAs	200 ppm TWA	200 ppm TWA	400 ppm TWAEV; 985 mg/m ³ TWAEV	350 mg/m ³ TWA	Not established
	Ceilings	Not established	Not established	Not established	Not established	400 ppm Peak; 1000 mg/m ³ Peak
	MAKs	Not established	Not established	Not established	Not established	200 ppm TWA MAK; 500 mg/m ³ TWA MAK
Propane (74-98-6)	TWAs	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)	1000 ppm TWA	1000 ppm TWAEV; 1800 mg/m ³ TWAEV	Not established	Not established
	Ceilings	Not established	Not established	Not established	Not established	4000 ppm Peak; 7200 mg/m ³ Peak
	MAKs	Not established	Not established	Not established	Not established	1000 ppm TWA MAK; 1800 mg/m ³ TWA MAK
Butane (106-97-8)	TWAs	Not established	800 ppm TWA (listed under Aliphatic hydrocarbon gases)	800 ppm TWAEV; 1900 mg/m ³ TWAEV	Not established	Not established
	STELs	1000 ppm STEL	Not established	Not established	Not established	Not established
	Ceilings	Not established	Not established	Not established	Not established	4000 ppm Peak (listed under Butane); 9600 mg/m ³ Peak (listed under Butane)
	MAKs	Not established	Not established	Not established	Not established	1000 ppm TWA MAK; 2400 mg/m ³ TWA MAK
Hydrotreated heavy naphtha	Ceilings	Not established	Not established	Not established	Not established	100 ppm Peak; 600 mg/m ³ Peak
						50 ppm TWA MAK;

(64742-48-9)	MAKs	Not established	Not established	Not established	Not established	300 mg/m3 TWA MAK
Exposure Limits/Guidelines (Con't.)						
	Result	Germany TRGS	NIOSH	OSHA		
Isopropyl alcohol (67-63-0)	TWAs	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)	400 ppm TWA; 980 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA		
	STELs	Not established	500 ppm STEL; 1225 mg/m3 STEL	Not established		
Propane (74-98-6)	TWAs	1000 ppm TWA AGW (exposure factor 4); 1800 mg/m3 TWA AGW (exposure factor 4)	1000 ppm TWA; 1800 mg/m3 TWA	1000 ppm TWA; 1800 mg/m3 TWA		
Butane (106-97-8)	TWAs	1000 ppm TWA AGW (exposure factor 4); 2400 mg/m3 TWA AGW (exposure factor 4)	800 ppm TWA; 1900 mg/m3 TWA	Not established		

Exposure Control Notations

ACGIH

•Isopropyl alcohol (67-63-0): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Germany DFG

- Propane (74-98-6): **Pregnancy:** (classification not yet possible)
- Butane (106-97-8): **Pregnancy:** (classification not yet possible)
- Hydrotreated heavy naphtha (64742-48-9): **Pregnancy:** (classification not yet possible)
- Isopropyl alcohol (67-63-0): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

Exposure Limits Supplemental

ACGIH

- Propane (74-98-6): **TLV Basis - Critical Effects:** (cardiac sensitization (listed under Aliphatic hydrocarbon gases: Alkanes C1-4); CNS impairment (listed under Aliphatic hydrocarbon gases: Alkanes C1-4))
- Butane (106-97-8): **TLV Basis - Critical Effects:** (CNS impairment)
- Isopropyl alcohol (67-63-0): **BEIs:** (40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)

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.

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.

Eye/Face

- Wear safety goggles.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEV = Short Term Exposure Value

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

NIOSH = National Institute of Occupational Safety and Health

TWAEV = Time-Weighted Average Exposure Value

OSHA = Occupational Safety and Health Administration

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

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

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Clear, colorless liquid with a slight solvent odor.
Color	Clear	Odor	Solvent
Odor Threshold	Data lacking		
General Properties			
Boiling Point	-290 F(-178.8889 C)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	< 1	Water Solubility	Negligible
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	50 psig	Vapor Density	> 1 Air=1
Evaporation Rate	> 1 Ether = 1	Volatiles (Vol.)	100 %
Flammability			
Flash Point	-156 F(-104.4444 C) (based on propellant)	UEL	15 %
LEL	1.9 %	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

- Avoid high temperatures and ignition sources.

10.5 Incompatible materials

- Strong oxidizers.

10.6 Hazardous decomposition products

- Thermal decomposition may produce carbon monoxide, carbon dioxide, sulfur oxides, aldehydes.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Butane (< 15%)	106-97-8	Acute Toxicity: Inhalation-Rat LC50 • 658 g/m ³ 4 Hour(s)
Isopropyl alcohol (< 5%)	67-63-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5000 mg/kg; <i>Behavioral:General anesthetic</i> ; Inhalation-Rat LC50 • 16000 ppm 8 Hour(s); Skin-Rabbit LD50 • 12800 mg/kg; Irritation: Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg • Mild irritation; Reproductive: Inhalation-Rat TClO • 3500 ppm 7 Hour(s)(1-19D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)</i>

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
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 • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Eye Irritation 2A

Potential Health Effects

Inhalation

- Acute (Immediate)**
 - May cause respiratory irritation. 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)**
 - May cause irritation to the gastrointestinal tract.
- Chronic (Delayed)**
 - No data available.

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	UN1950	Aerosols	2.1	NDA	NDA
TDG	UN1950	AEROSOLS	2.1	NDA	NDA
IMO/IMDG	UN1950	AEROSOLS	2.1	NDA	NDA
IATA/ICAO	UN1950	Aerosols, flammable	2.1	NDA	NDA

14.6 Special precautions for user • None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

Section 15 - Regulatory Information

HSR002515

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

SARA Hazard Classifications • Acute, Fire, Pressure(Sudden Release of)

State Right To Know				
Component	CAS	MA	NJ	PA
Butane	106-97-8	Yes	Yes	Yes
Hydrotreated heavy naphtha	64742-48-9	No	No	No
Isopropyl alcohol	67-63-0	Yes	Yes	Yes
Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Yes	No	No
Propane	74-98-6	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Butane	106-97-8	Yes	No	Yes	Yes	No
Hydrotreated heavy naphtha	64742-48-9	Yes	No	Yes	Yes	No
Isopropyl alcohol	67-63-0	Yes	No	Yes	Yes	No
Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Yes	No	Yes	Yes	No

Propane	74-98-6	Yes	No	Yes	Yes	No
Inventory (Con't.)						
Component	CAS	TSCA				
Butane	106-97-8	Yes				
Hydrotreated heavy naphtha	64742-48-9	Yes				
Isopropyl alcohol	67-63-0	Yes				
Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Yes				
Propane	74-98-6	Yes				

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Isopropyl alcohol	67-63-0	B2, D2B (including 70%)
• Propane	74-98-6	A, B1
• Butane	106-97-8	A, B1
• Hydrotreated heavy naphtha	64742-48-9	B3
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Isopropyl alcohol	67-63-0	1 %
• Propane	74-98-6	Not Listed
• Butane	106-97-8	1 %
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

Europe

Other

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

• Isopropyl alcohol	67-63-0	F; R11 Xi; R36 R67
• Propane	74-98-6	F+; R12
• Butane	106-97-8	F+; R12
• Hydrotreated heavy naphtha	64742-48-9	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Carc.Cat.2; R45

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed

• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	F Xi R:11-36-67 S:(2)-7-16-24/25-26
• Propane	74-98-6	F+ R:12 S:(2)-9-16
• Butane	106-97-8	F+ R:12 S:(2)-9-16
• Hydrotreated heavy naphtha	64742-48-9	T R:45-46-65 S:53-45
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	T R:45 S:53-45

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	C
• Hydrotreated heavy naphtha	64742-48-9	P
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	L

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

• Isopropyl alcohol	67-63-0	S:(2)-7-16-24/25-26
• Propane	74-98-6	S:(2)-9-16
• Butane	106-97-8	S:(2)-9-16
• Hydrotreated heavy naphtha	64742-48-9	S:53-45
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	S:53-45

United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed

• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

United States - California

Environment

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed

• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Isopropyl alcohol	67-63-0	
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

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

• Isopropyl alcohol	67-63-0	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Hydrotreated heavy naphtha	64742-48-9	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic	64742-53-6	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

SW Revised 01.12.2020

Relevant Phrases (code & full text)

- H220 - Extremely flammable gas
- H225 - Highly flammable liquid and vapour
- H280 - Contains gas under pressure; may explode if heated
- H304 - May be fatal if swallowed and enters airways
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness
- H340 - May cause genetic defects.
- H350 - May cause cancer.
- R12 - Extremely flammable.
- R36 - Irritating to eyes.
- R45 - May cause cancer.
- R46 - May cause heritable genetic damage.
- R65 - Harmful: may cause lung damage if swallowed.
- R67 - Vapours may cause drowsiness and dizziness.

Last Revision Date

- 05/March/2015

Preparation Date

- 05/March/2015

Disclaimer/Statement of Liability

- The data here is for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this SDS (Safety data Sheet) may be duplicated or the data transcribed to an alternative form. NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Birchwood Casey LLC makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period. Accordingly, Birchwood Casey LLC will not be responsible for damages of any kind resulting from the use of or reliance upon such information. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

Key to abbreviations

NDA = No data available