## Safety Data Sheet



## Cleaner Fluid - Aerosol

## Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Cleaner Fluid - Aerosol

Product Code(s)

**16-483** 

**Product Description** 

Clear flammable liquid in aerosol form with a hydrocarbon odor.

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

Relevant identified use(s)

Cleaning compound.

Uses advised against

No data available

1.3 Details of the supplier of the safety data sheet

Manufacturer

 Patch Rubber Company 100 Patch Rubber Road Weldon, NC 27890 United States

sales@patchrubber.com

Telephone

Technical

(252)-536-2574

Responsible Party - EU

Christian Gimenez

Intertek Analytical Services France

Telephone

Technical

33 (0) 6 07 11 22 15

1.4 Emergency telephone

number

**Emergency** 

800-424-9300 - Chemtrec

#### Section 2 - Hazards Identification

#### EU/EEC

According to EU Directive 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/REACH

- Extremely Flammable Aerosol Category 1 H222
- Skin Irritant Category 2 H315
- Aspiration Toxicity Category 1 H304
- Specific Target Organ Toxicity Single Exposure Category 3 H336
- Chronic Hazard to Aquatic Environment Category 1 H410
- Acute Hazard to Aquatic Environment Category 1 H400

DSD/DPD • F+ - Ext

F+ - Extremely Flammable - R12

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- Xi Irritant R38
- Xn- Harmful R65, R67
- N Dangerous for the environment R50/53

#### 2.2 Label elements

CLP/REACH .

DANGER



#### **Hazard statements**

- H222 Extremely flammable aerosol.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H304 May be fatal if swallowed and enters airways.
- H410 Very toxic to aquatic life with long lasting effects.

# Precautionary statements Prevention

- P102 Keep out of reach of children
- P210 Keep away from heat/sparks/open flames/hot surfaces-No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P273 Avoid releases to the environment.
- P251- Pressurized container: Do not pierce of burn, even after use.
- P280 Wear protective gloves/protective clothing/eye protection/face protection

#### Response

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.

#### Storage/Disposal

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
- R65 Harmful: may cause lung damage if swallowed.
- R67 Vapors may cause drowsiness and dizziness
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety phrases

- S2 Keep out of reach of children
- S9 Keep container in a well-ventilated place
- S16 Keep away from sources of ignition No smoking
- S29 Do not empty into drains
  - S33 take precautionary measures against static discharges
  - S60 This material and its container must be disposed of as hazardous waste
  - S62 Avoid releases to the environment. Refer to special instructions/safety data sheet
  - S62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label

#### 2.3 Other hazards

- The components of this material contain less than 0.1% Benzene therefore the carcinogen and mutagen classifications of the components do not apply to the material.
- According to EU Directive 1272/2008 (CLP) this product is considered hazardous.
- This product is considered dangerous according to the European Directive 1999/45/EC.
- This material does not meet the criteria for PBT and vPvB.

#### **UN GHS**

According to United Nations - Third Revised Edition

#### 2.1 Classification of the substance or mixture

- Extremely Flammable Aerosol Category 1 H222
- Skin Irritant Category 2 H315
- Aspiration Toxicity Category 1 H304
- Specific Target Organ Toxicity Single Exposure Category 3 H336

#### 2.2 Label elements

#### DANGER



#### Hazard statements

- H222 Extremely Flammable Aerosol
- H315 Causes skin irritation
- H336 May cause drowsiness or dizziness
- H304 May be fatal if swallowed and enters airways.

#### Precautionary statements

#### Prevention

- P102 Keep out of reach of children
- P210 Keep away from heat/sparks/open flames/hot surfaces-No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251- Pressurized container: Do not pierce of burn, even after use.
- P280 Wear protective gloves/protective clothing/eye protection/face protection

#### Response

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.

#### Storage/Disposal

P501 – Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### 2.3 Other hazards

 According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

#### United States (US)

According to OSHA 29 CFR 1910.1200 HCS - Hazard Communication Standard

#### 2.1 Classification of the substance or mixture

- Flammable Liquid, Flammable/Combustible Class IB
- Irritant
- Central nervous system depressant (CNS)

#### 2.2 Label elements

Not Applicable

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#### 2.3 Other hazards

 Under United States Regulations (29 CFR 1900.1200 - Hazard Communication Standard), this product is considered hazardous.

#### Canada

According to WHMIS - Workplace Hazardous Material Information System

#### 2.1 Classification of the substance or mixture

- Class B Flammable and Combustible Materials Division 5
- Class D Poisonous and Infectious Materials Division 2 Subdivision B

#### 2.2 Label elements



#### 2.3 Other hazards

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

## 2.4 Other hazard rating systems NFPA



## 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

Chemical Name	Identifiers	%(wt)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Heptane	CAS: 142-82-5 Index: 601-008-00-2 EINECS: 205-563-8 UN: UN1206	30% to 50%	Inhalation-Rat LC50 · 103 g/m³ 4 Hour(s)	DSD/DPD: F; R11 Xi; R38 N; R50 R53 Xn; R65 R67; Note C; EU CLP: Flammable Liquid 2 - H225; Skin Irritant 2 - H315; Aspiration Toxicity 1 - H304; Specific Target Organ Toxicity Single Exposure 3 - H336; Chronic Hazard to Aquatic Environment 1 - H410; Acute Hazard to Aquatic Environment 1 - H400; Note C;	*
Solvent naphtha (petroleum), light aliph.	CAS: 64742-89-8 Index: 649-267-00-0 EINECS: 265-151-9	30% to 50%	NDA	DSD/DPD: Carc.Cat.2; R45; Muta.Cat.2; R46; Xn; R65; Notes: H, P; EU CLP: Carc. 1B – H350; Muta. 1B – H340; Asp. Tox. 1 – H304; Notes: H, P;	*
Isobutane	CAS: 75-28-5 Index: 601-004-00-0 EINECS: 200-857-2	0% to 25%	InhalationRat LC50 · 658000 mg/m³ 4 Hour(s)	DSD/DPD: F+; R12 EU CLP: Fiam. Gas 1 – H220; Press Gas	**
Propane	CAS: 74-98-6 Index: 601-003-00-5 EINECS: 200-827-9	0% to 25%	NDA	DSD/DPD: F+; R12 EU CLP: Flam. Gas 1 – H220; Press Gas	**

#### Key to abbreviations

#### 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.

Skin

 In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye

• 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.

Ingestion

Do NOT induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

 May cause skin irritation. Inhalation of vapors or fumes will cause central nervous system effects with symptoms of dizziness, drowsiness, lethargy, coma and death. Material aspirated into the lungs will cause lung damage, chemical pneumonitis, pulmonary edema or death.

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

Notes to Physician

Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.

#### 4.4 Other information

 Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
 Keep victim warm and guiet.

## Section 5 - Firefighting Measures

## 5.1 Extinguishing media

Suitable Extinguishing Media

Carbon dioxide (CO2), water fog, dry chemical or chemical foam.

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<sup>\* =</sup> This product may be composed, in whole or in part, of the above refinery streams.

<sup>\*\* =</sup> Refers to a mixture of Isobutane and Propane.

Unsuitable Extinguishing Media Firefighting Procedures

- Avoid the use of streaming water, as this may spread the fire.
- Move containers from fire area if you can do it without risk.
   Use water spray to cool containers exposed to fire.

#### 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.

    Extremely flammable liquid and vapor.

    Vapors may form explosive mixtures with air.

Vapor explosion hazard indoors, outdoors or in sewers. Vapors may travel to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Hazardous Combustion Products** 

5.3 Advice for firefighters

Smoke, soot, fumes or vapors, oxides of carbon.

 Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self -contained breathing apparatus (SCBA).

#### Section 6 - Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. 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.

All equipment used when handling the product must be grounded.

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. LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

#### 6.4 Reference to other sections

See Sections 8 and 13.

## Section 7 - Handling and Storage

#### 7.1 Precautions for safe handling

Handling

Keep away from heat and ignition sources — No Smoking. Product can accumulate static charge by flow or agitation. Bond and ground equipment when transferring from one vessel to another. Empty containers retain product residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks or other ignition sources. They may explode and cause injury or death. Use only with adequate ventilation. Do not enter confined spaces such tanks or pits without following proper entry procedures.

#### 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. Keep container closed when not in use. Keep away from incompatible materials.

Incompatible Materials or Ignition Sources Keep away from heat, ignition sources oxidizers and strong acids.

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#### 7.3 Specific end use(s)

See Section 1.2 – Relevant identified use(s)

## Section 8 - Exposure Controls/Personal Protection

#### 8.1 Control parameters

Engineering Measures/Controls  Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

Exposure Limits/Guidelines							
	Result	ACGIH	Canada Ontario	Canada Quebec	France	Italy	
Propane (74-98-6)	TWAs	1000 ppm TWA	1000 ppm TWAEV	1000 ppm TWAEV; 1800 mg/m3 TWAEV	Not established	Not established	
Isobutane (75-28-5)	TWAs	1000 ppm TWA	Not established	Not established	Not established	Not established	
Heptane	TWAs	400 ppm TWA	400 ppm TWAEV; 1635 mg/m3 TWAEV	400 ppm TWAEV; 1640 mg/m3 TWAEV	400 ppm VME (restrictive limit); 1668 mg/m3 VME (restrictive limit)	500 ppm TWA; 2085 mg/m3 TWA	
(142-82-5)	STELs	500 ppm STEL	500 ppm STEV; 2045 mg/m3 STEV	500 ppm STEV; 2050 mg/m3 STEV	500 ppm VLCT (restrictive limit); 2085 mg/m3 VLCT (restrictive limit)	Not established	

Exposure Limits/Guidelines(Con't.)					
	Result	NIOSH	OSHA		
Propane (74-98-6)	TWAs	1000 ppm TWA; 1800 mg/m3 TWA	1000 ppm TWA; 1800 mg/m3 TWA		
Isobutane (75-28-5)	TWAs	800 ppm TWA; 1900 mg/m3 TWA	Not established		
Heptane	TWAs	85 ppm TWA; 350 mg/m3 TWA	500 ppm TWA; 2000 mg/m3 TWA		
(142-82-5)	Ceilings	440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)	Not established		

#### **Exposure Control Notations**

#### Italy

- Naphtha (petroleum), hydrotreated light (64742-49-0):Carcinogens:Category 2 Carcinogen
- Isobutane (75-28-5):Carcinogens:Category 1 Carcinogen (containing >= 0.1% butadiene)
- Light aliphatic solvent naphtha (64742-89-8):Carcinogens:Category 2 Carcinogen

#### **Exposure Limits Supplemental**

#### **ACGIH**

- Isobutane (75-28-5):TLV Basis Critical Effects:cardiac sensitization; CNS impairment
- Heptane (142-82-5):TLV Basis Critical Effects:CNS impairment; upper respiratory tract irritation
- Propane (74-98-6):TLV Basis Critical Effects:cardiac sensitization; CNS impairment

#### Key to abbreviations

10, 10		ations			
ACGI	H =	American Conference of Governmental Industrial Hygiene	MSHA	=	Mine Safety and Health Administration
VLCT	=	Valeurs limites d'exposition à court terme is the short-term exposure limit based on 15-minute exposure.	STEL	=	Short Term Exposure Limits are based on 15- minute exposures
VME	=	Valeur Moyenne d'Exposition is the maximum permissible concentration for a work day	STEV TWAEV	=	Short Term Exposure Value Time-Weighted Average Exposure Value
NIOS	H =	National Institute of Occupational Safety and Health	IVVAEV	_	Time-weighted Average Exposure value

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**OSHA** Occupational Safety and Health Administration

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

#### 8.2 Exposure controls **Personal Protective Equipment**

**Pictograms** 



Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced. If ventilation is not sufficient to effectively prevent buildup of dust, appropriate European Standard EN141 and/or EN405 approved respiratory equipment must be provided.

Eye/Face Hands Skin/Body Wear safety goggles.

Wear protective gloves -neoprene, butyl or nitrile rubber with cuffs.

Where extensive dermal exposure may be expected, either a chemical suit or chemical apron will be needed.

General Industrial Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash

thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical Form:	Aerosol	Appearance/Description:	Clear flammable liquid in aerosol form with a hydrocarbon odor.
Color:	Clear	Odor:	Hydrocarbon
Taste:	No data available	Particulate Type:	No data available
Particulate Size:	No data available	Aerosol Type:	No data available
Odor Threshold:	No data available	Boiling Point:	195 to 210 F(90.5556 to 98.8889 C)
Melting Point:	No data available	Decomposition Temperature:	No data available
Heat of Decomposition:	No data available	pH:	No data available
Specific Gravity/Relative Density:	= 0.696 Water=1	Density:	= 5.797 lbs/gal
Bulk Density:	No data available	Water Solubility:	Negligible
Solvent Solubility:	No data available	Viscosity:	= 0.83 Centistoke (cSt, cS) or mm2/sec @ 100 F(37.7778 C)
Vapor Pressure:	= 45 mmHg (torr) @ 20 C(68 F)	Vapor Density:	= 3.5 Air=1
Evaporation Rate:	= 2.8 n-Butyl Acetate = 1	VOC (Wt.):	No data available
VOC (Vol.):	No data available	Volatiles (Wt.):	No data available
Volatiles (Vol.):	No data available	Flash Point:	15 F(-9.4444 C)
Flash Point Test Type:	No data available	UEL:	6.7 %
LEL:	1 %	Heat of Combustion (ΔHc):	No data available
Autoignition:	475 F(246.1111 C)	Self-Accelerating Decomposition Temperature (SADT):	No data available
Burning Time:	No data available	Flame Duration:	No data available
Flame Height:	No data available	Flame Extension:	> 18
Ignition Distance:	No data available	Half-Life:	No data available

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Octanol/Water Partition coefficient:	2.1 to 5 log Kow	Coefficient of water/oil distribution:	No data available
Bioaccumulation Factor:	No data available	Bioconcentration Factor:	No data available
Biochemical Oxygen Demand BOD/BOD5:	No data available	Chemical Oxygen Demand:	No data available
Persistence:	No data available	Degradation:	No data available

#### 9.2 Other Information

No data available

## Section 10 - Stability and Reactivity

#### 10.1 Reactivity

Not reactive

#### 10.2 Chemical stability

Stable under normal temperatures and pressures.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4 Condition to avoid

High temperatures, sparks, open flames and live electrical circuits.

## 10.5 Incompatible materials

Oxidizing agents, strong acids.

#### 10.6 Hazardous decomposition products

 In case of fire oxides of carbon, hydrocarbons, fumes or vapors, soot and smoke may be produced.

## **Section 11 - Toxicological Information**

## 11.1 Information on toxicological effects

Component Name	Concentration	CAS	Data
Heptane	30% TO 50%	142-82-5	Acute Toxicity: ; ihl-rat LC50:103 gm/m3/4H; ihl-hmn TCLo:1000 ppm/6M; ihl-rat TCLo:420 mg/m3/12H/2W-l
Isobutane	0% TO 25%	75-28-5	Acute Toxicity: ; ihl-rat LC50:57 pph/15M

#### Key to abbreviations

LC = Lethal Concentration
TC = Toxic Concentration

GHS Properties	Classification	
Acute toxicity - oral	EU/CLP: Classification criteria not met	
•	UN GHS: Classification criteria not met	
Acute toxicity - dermal	EU/CLP: Classification criteria not met	
<u>-</u>	UN GHS: Classification criteria not met	
Acute toxicity - inhalation	EU/CLP: Classification criteria not met	
	UN GHS: Classification criteria not met	
Skin corrosion/irritation	EU/CLP: Category 2	
	UN GHS: Category 2	
Serious eye damage/Irritation	EU/CLP: Classification criteria not met	
-	UN GHS: Classification criteria not met	
Skin sensitization	EU/CLP: Classification criteria not met	
	UN GHS: Classification criteria not met	

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Respiratory sensitization	EU/CLP: Data lacking
	UN GHS: Classification criteria not met
Aspiration hazard	EU/CLP: Category 1
	UN GHS: Category 1
Carcinogenicity	EU/CLP: Classification criteria not met
	UN GHS: Classification criteria not met
Germ cell mutagenicity	EU/CLP: Classification criteria not met
	UN GHS: Classification criteria not met
Toxicity for reproduction/ fertility	EU/CLP: Classification criteria not met
	UN GHS: Classification criteria not met
Toxicity for reproduction /	EU/CLP: Classification criteria not met
developmental	UN GHS: Classification criteria not met
Effects on Lactation	EU/CLP: Classification criteria not met
	UN GHS: Classification criteria not met
STOT-SE	EU/CLP: Category 3 – Narcotic Effects
	UN GHS: Category 3 Narcotic Effects
STOT-RE	EU/CLP: Classification criteria not met
	UN GHS: Classification criteria not met

**Target Organs** Central Nervous System (CNS) Route(s) of entry/exposure Inhalation, Skin, Eye, Ingestion **Potential Health Effects** Inhalation Acute (Immediate) High aerosol concentrations can cause irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death. Intentional concentration and inhalation of heptane vapors may lead to nervous system damage. Chronic (Delayed) No data available. Skin Acute (Immediate) Causes skin irritation. Direct skin contact with heptane may cause pain, burning, and itching. Chronic (Delayed) Repeated and prolonged exposure may cause dermatitis. Eye Acute (Immediate) Causes eye irritation. Chronic (Delayed) No data available. Ingestion Acute (Immediate) Material may be aspirated into 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. Carcinogenic Effects No effects expected. **Mutagenic Effects** No effects expected.

Section 12 - Ecolog	ical Information		
Component Name	Concentration	CAS	Data
Heptane	0% TO 100%	142-82- 5	Fish: 96 Hour(s) LC50 Fish 375 mg/L

No effects expected.

## 12.1 Toxicity

Reproductive Effects

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No data available.

#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No chemical safety report required.

#### 12.6 Other adverse effects

**Ecological Fate** 

No data available.

#### 12.7 Other Information

No data is available on the adverse effects of this material on the environment. This product will normally float on water and components will evaporate rapidly. Heptane may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

## **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	NDA	Consumer commodity	ORM-D	NDA	NDA
TDG	UN1950	AEROSOLS, flammable	2.1	NDA	NDA
IMO/IMDG	UN1950	AEROSOLS	2.1	NDA	NDA
ADN	UN1950	AEROSOLS, flammable	2.1	NDA	NDA
ADR/RID	UN1950	Aerosols, flammable	2.1	NDA	NDA
IATA/ICAO	UN1950	Aerosols, flammable	2.1	NDA	NDA

## 14.6 Special precautions

for user

No data available

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# 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### No data available

#### Key to abbreviations

IMO/IMDG

DOT = United States - Department of Transportation

TDG = Canada - Transport of Dangerous Goods

International Maritime Transport

ADN = Europe Transport of Dangerous Goods by Road/Inland

Waterway

IATA = International Air Transport Association

ICAO = International Civil Aviation Organization

ADR = Europe Transport of Dangerous Goods by Road/inland

Waterway

RID = Europe Transport of Dangerous Goods by Railways

## Section 15 - Regulatory Information

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

SARA Hazard Classifications

Acute, Chronic, Fire, Pressure(Sudden Release of)

State Right To Know						
Component	CAS	MA	NJ	PA		
Heptane	142-82-5	Yes	Yes	Yes		
Light aliphatic solvent naphtha	64742-89-8	No	No	No		
Isobutane	75-28-5	Yes	Yes	Yes		
Propane	74-98-6	Yes	Yes	Yes		

		Inve	ntory				
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA	
Heptane	142-82-5	Yes	No	Yes	No	Yes	
Light aliphatic solvent naphtha	64742-89-8	Yes	No	Yes	No	Yes	
Isobutane	75-28-5	Yes	No	Yes	No	Yes	
Propane	74-98-6	Yes	No	Yes	No	Yes	

#### Canada

#### Labor

#### Canada - WHMIS - Ingredient Disclosure List

• Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	1 %
∗ Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed

#### Environment

#### Canada - CEPA - Priority Substances List

• Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
• Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed

#### Europe

#### Other

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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification			
• Isobutane	75-28-5	0% TO 25%	F+; R12
Heptane	142-82-5	30% TO	F; R11 Xi; R38 N; R50 R53 Xn; R65 R67
Topiano		50%	
• Propane	74-98-6	0% TO 25%	F+; R12
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits			
<ul> <li>Isobutane</li> </ul>	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
• Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling			
∗ Isobutane	75-28-5	0% TO 25%	F+ R:12 S:(2)-9-16
• Heptane	142-82-5	30% TO 50%	F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29- 33-60-61-62
Propane	74-98-6	0% TO 25%	F+ R:12 S:(2)-9-16
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	T R:45-46-65 S:53-45
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Pre	parations		
• Isobutane	75-28-5	0% TO 25%	С
Heptane	142-82-5	30% TO 50%	С
Propane	74-98-6	0% TO 25%	Not Listed
⋆ Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	H, P
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases			
• Isobutane	75-28-5	0% TO 25%	S:(2)-9-16
Heptane	142-82-5	30% TO 50%	S:(2)-9-16-29-33-60-61-62
• Propane	74-98-6	0% TO 25%	S:(2)-9-16
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	S:53-45
United States			
Labor			
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals	3		
• Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
- Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
U.S OSHA - Specifically Regulated Chemicals			
• Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
• Propane	74-98-6	0% TO 25%	Not Listed

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Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
Environment			
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants			
• Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quan	tities		
<ul> <li>Isobutane</li> </ul>	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities			
• Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EP	CRA RQs		
• Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPC	Qs		
■ Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting			
• Isobutane	75-28-5	0% TO 25%	Not Listed
• Heptane	142-82-5	30% TO 50%	Not Listed
Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing			
• Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
Propane	74-98-6	0% TO 25%	Not Listed

Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed	
United States - California				
Environment				
U.S California - Proposition 65 - Carcinogens List				
• Isobutane	75-28-5	0% TO 25%	Not Listed	
* Heptane	142-82-5	30% TO 50%	Not Listed	
• Propane	74-98-6	0% TO 25%	Not Listed	
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed	
U.S California - Proposition 65 - Developmental Toxicity				
• Isobutane	75-28-5	0% TO 25%	Not Listed	
Heptane	142-82-5	30% TO 50%	Not Listed	
■ Propane	74-98-6	0% TO 25%	Not Listed	
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed	
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MAI	DL)			
• Isobutane	75-28-5	0% TO 25%	Not Listed	
Heptane	142-82-5	30% TO 50%	Not Listed	
■ Propane	74-98-6	0% TO 25%	Not Listed	
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed	
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)				
• Isobutane	75-28-5	0% TO 25%	Not Listed	
Heptane	142-82-5	30% TO 50%	Not Listed	
Propane	74-98-6	0% TO 25%	Not Listed	
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Female				
■ Isobutane	75-28-5	0% TO 25%	Not Listed	
▪ Heptane	142-82-5	30% TO 50%	Not Listed	
■ Propane	74-98-6	0% TO 25%	Not Listed	
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Male				
• Isobutane	75-28-5	0% TO 25%	Not Listed	
Heptane	142-82-5	30% TO 50%	Not Listed	
• Propane	74-98-6	0% TO 25%	Not Listed	
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed	
United States - Massachusetts				

United States - New Jersey

United States - Pennsylvania

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U.S Pennsylvania -	RTK (R	light to Know) -	Environmental	Hazard List
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▪ Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous	Substances		
- Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Not Listed
• Propane	74-98-6	0% TO 25%	Not Listed
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed
United States - Rhode Island			
1 -1			

#### U

#### Labor

#### U.S. - Rhode Island - Hazardous Substance List

• Isobutane	75-28-5	0% TO 25%	Not Listed
Heptane	142-82-5	30% TO 50%	Toxic; Flammable
Propane	74-98-6	0% TO 25%	Toxic; Flammable
Light aliphatic solvent naphtha	64742-89-8	30% TO 50%	Not Listed

#### Section 16 - Other Information

**Phrases** 

**Last Revision Date Preparation Date** 

Disclaimer/Statement of Liability

- Refer to Section 2
- 17/10/2011
- 17/10/2011
- The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Key to abbreviations

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#### Cleaner Fluid - Aerosol

•	CAS	=	Chemical Abstract Services	DSD	=	Dangerous Substances Directive (EU Directive 67/548/EEC)
EINECS =	European Inventory of Existing Chemical Substances	DPD	=	Dangerous Preparations Directive (EU Directive 1999/45/EC)		
,	В	_	Lethal Dose	EU CLP	=	EU Directive 1272/2008
•	LD	=	Lethal Dose			United Nations Globally Harmonized System of Classification and Labelling of
ļ	LÇ	=	Lethal Concentration	UN GHS		Chemicals
i	NDA	=	No data available			