### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 08/04/2014

Version:

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form

: Mixture

Trade name

: 1ST AYD STARTING FLUID 25% 10.7 OZ.

Product code

: 1-11

1.2.

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

Use of the substance/mixture

: Starting Fluid

Details of the supplier of the safety data sheet

FIRST AYD CORPORATION 1325 GATEWAY DRIVE **ELGIN,IL 60123** 

T 800-422-3033

**Emergency telephone number** 

Emergency number

: CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

#### Classification (GHS-US)

Flam, Aerosol 1 H222 Compressed gas H280 Skin Irrit. 2 H315 Muta. 1B H340 Carc. 1A H350 Repr. 2 H361 STOT SE 3 H336 STOT RE 2 H373

Full text of H-phrases: see section 16

#### 22 I ahel elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS04





Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H222 - Extremely flammable aerosol

H280 - Contains gas under pressure; may explode if heated

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H340 - May cause genetic defects

H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US)

: P201 - Obtain special instructions

P202 - Do not handle until all safety precautions have been read and understood 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 or burn, even after use

P260 - Do not breathe dust, fumes, gas, mist, vapor spray P261 - Avoid breathing dust, fume, gas, mist, vapor spray P264 - Wash affected areas thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves, protective clothing, eye protection, face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.

P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment: See section 4.1 on SDS

P332+P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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P405 - Store locked up

P410+P403 - Protect from sunlight. Store in a well-ventilated place

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

#### 2.3. Other hazards

Other hazards not contributing to the classification

: Contains gas under pressure; may explode if heated.

#### Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

#### Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Heptane, Branched Cyclic	(CAS No) 426260-76-6	44.64 - 46.5	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Diethyl Ether	(CAS No) 60-29-7	10 - 30	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302
Petroleum Gases, Liquefied, Sweelened	(CAS No) 68476-86-8	10 - 30	Flam. Gas 1, H220 Flam. Liq. 1, H224 Muta. 1B, H340 Carc. 1A, H350
Heptane	(CAS No) 142-82-5	11.625 - 20.925	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Carbon Dioxide, Liquefied, Under Pressure	(CAS No) 124-38-9	5 - 10	Compressed gas, H280
Toluene	(CAS No) 108-88-3	0.465 - 1.86	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Distillates (Petroleum), Hydrotreated Heavy Naphthenic	(CAS No) 64742-52-5	<1	Not classified

## SECTION 4: First aid measures

#### Description of first aid measures

First-aid measures general

Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical

advice/attention.

First-aid measures after inhalation

Cough. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER/doctor/physician if you feel unwell.

First-aid measures after skin contact

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Get medical advice/attention. Specific treatment: See section 4.1 on SDS.

First-aid measures after eye contact

Direct contact with the eyes is likely to be irritating. Rinse immediately with plenty of water.

Obtain medical attention if pain, blinking or redness persist. : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

First-aid measures after ingestion

Most important symptoms and effects, both acute and delayed Symptoms/injuries

: May cause genetic defects. Suspected of damaging fertility or the unborn child. Causes damage

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to organs.

Symptoms/injuries after inhalation

: Shortness of breath. May cause cancer by inhalation. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

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

No additional information available

### SECTION 5: Firefighting measures

### Extinguishing media

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

### Special hazards arising from the substance or mixture

Fire hazard

: Extremely flammable aerosol.

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Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns

and injuries.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire

reaches explosives. Evacuate area.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Aerosol level 3.

#### SECTION 6: Accidental release measures

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

General measures : No naked lights. No smoking. Is

: No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove

ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust, fume, gas, mist, vapor spray.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill.

Methods for cleaning up : Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Hazardous waste due to potential risk of explosion. Pressurized container. Do not pierce or burn,

even after use

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source. Obtain special instructions. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing dust,fume,gas,mist,vapor spray. Use only outdoors or in

a well-ventilated area

Hygiene measures : Wash affected areas thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Do not expose to

temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Heat-ignition : KEEP SUBSTANCE AWAY FROM: ignition sources, heat sources.

Storage area : Store in a well-ventilated place.

### 7.3. Specific end use(s)

Follow Label Directions.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Diethyl Ether (60-29-	7)		
USA ACGIH	ACGIH TWA (mg/m³)	1200	
USA ACGIH	ACGIH TWA (ppm)	400 ppm	
USA ACGIH	ACGIH STEL (mg/m³)	1500 mg/m³	
USA ACGIH	ACGIH STEL (ppm)	500 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m²)	1200 mg/m³	

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Diethyl Ether (60-29-	7)	
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
Toluene (108-88-3)		
USA ACGIH	ACGIH TWA (mg/m³)	75 mg/m³
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
Heptane (142-82-5)		
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
Heptane, Branched	Cyclic (426260-76-6)	
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	500 ppm
Distillates (Petroleur	n), Hydrotreated Heavy Naphthenic (64742-52-5)	
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ MIST 8 HOURS
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ MIST 8 HOURS
Petroleum Gases, Li	quefied, Sweetened (68476-86-8)	
USA ACGIH	ACGIH TWA (ppm)	1000 ppm Listed under Aliphatic hydrocarbon gases alkane C1-C4
USA OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Carbon Dioxide, Liqu	ıefied, Under Pressure (124-38-9)	
	uefied, Under Pressure (124-38-9) ACGIH TWA (mg/m³)	9000 mg/m³
USA ACGIH		9000 mg/m³ 5000 ppm
USA ACGIH USA ACGIH	ACGIH TWA (mg/m²)	
USA ACGIH USA ACGIH USA ACGIH	ACGIH TWA (mg/m³) ACGIH TWA (ppm)	5000 ppm
Carbon Dioxide, Liqu USA ACGIH USA ACGIH USA ACGIH USA ACGIH USA OSHA	ACGIH TWA (mg/m²)  ACGIH TWA (ppm)  ACGIH STEL (mg/m²)	5000 ppm 54000

#### 8.2. **Exposure controls**

Appropriate engineering controls

: Local exhaust venilation, vent hoods.

Personal protective equipment

: Gloves. Safety glasses. Avoid all unnecessary exposure.





Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Other information

: Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state

Appearance Color

: Colorless to pale yellow liquid. : Colourless to light yellow.

Odor

: Sweet.

Odor threshold

: No data available

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pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : No data available

Boiling point : -42 °C (LOWEST COMPONENT)

Flash point : -23 °C

Auto-ignition temperature : 180 °C (LOWEST COMPONENT)

Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available

Relative vapor density at 20 °C : > 1.5

Relative density : No data available
Solubility : Poorly soluble in water.
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available

Viscosity, dynamic : No data available
Explosive properties : Heating may cause a

Explosive properties : Heating may cause an explosion. Heating may cause a fire.

Oxidizing properties : No data available

9.2. Other information

VOC content : 93.3 % CARB METHOD 310

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Explosive limits

No additional information available

#### 10.2. Chemical stability

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

: No data available

### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

LD50 oral rat	1215 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 1600 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 14200 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	99 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	32000 ppm/4h (Rat)

Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 5000 mg/kg body weight LD50 quoted as 14.1 mL/kg (12267 mg/kg using density of 0.87)
LC50 inhalation rat (mg/l)	> 28.1 mg/l/4h (Rat; Air, Literature study)

Heptane (142-82-5)	
LD50 oral rat	> 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg
	bodyweight; Rat; Read-across)

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Heptane (142-82-5)	
LD50 dermal rabbit	> 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across)
LC50 inhalation rat (mg/l)	103 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	25000 ppm/4h (Rat; Literature study)

Heptane, Branched Cyclic (426260-	76-6)
LD50 oral rat	> 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across)
LC50 inhalation rat (mg/l)	103 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	25000 ppm/4h (Rat; Literature study)

Distillates (Petroleum), Hydrotreate	d Heavy Naphthenic (64742-52-5)	
LD50 oral rat	> 5000 mg/kg body weight	
LD50 dermal rabbit	> 2000 mg/kg body weight	
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation : Not classified Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : May cause genetic defects. Carcinogenicity : May cause cancer.

Toluene (108-88-3)	
IARC group	3

Distillates (Petroleum), Hydrotreated Heav	y Naphthenic (64742-52-5)	
IARC group	3	

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

exposure)

: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms

Specific target organ toxicity (repeated

Symptoms/injuries after inhalation

: Based on available data, the classification criteria are not met.

: Shortness of breath. May cause cancer by inhalation. May cause drowsiness or dizziness. Symptoms/injuries after skin contact : Causes skin irritation.

### SECTION 12: Ecological information

#### 12.1. **Toxicity**

Diethyl Ether (60-29-7)	
LC50 fish 1	> 10000 ppm (96 h; Lepomis macrochirus)
EC50 Daphnia 1	165 mg/l (24 h; Daphnia magna)
LC50 fish 2	2560 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	1380 mg/l (48 h; Daphnia magna)
TLM fish 1	> 1000 mg/l (96 h; Pisces)
TLM other aquatic organisms 1	> 1000 mg/l (96 h)

Toluene (108-88-3)		
LC50 fish 1	24 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	84 mg/l (24 h; Daphnia magna; Locomotor effect)	
LC50 fish 2	13 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	11.5 - 19.6 mg/l (48 h; Daphnia magna)	
Threshold limit algae 1	> 400 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)	
Threshold limit algae 2	105 mg/l (192 h; Microcystis aeruginosa)	

Heptane (142-82-5)		
LC50 fish 1	375 mg/l (96 h; Tilapia mosambica; Nominal concentration)	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)	
EC50 Daphnia 1	1.5 mg/l (48 h; Daphnia magna)	
LC50 fish 2	> 100 mg/l (96 h; Oncorhynchus kisutch)	
TLM fish 1	4924 mg/l (48 h; Gambusia affinis)	

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Heptane (142-82-5)	
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit algae 1	> 200 mg/l (Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	1.5 mg/l (8 h; Algae; Photosynthesis)
Carbon Dioxide, Liquefied, Under Pressure (1	24-38-9)
LC50 fish 1	35 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Lethal)
LC50 fish 2	60 - 240 mg/l (12 h; Salmo gairdneri (Oncorhynchus mykiss); Lethal)
12.2. Persistence and degradability	
1ST AYD STARTING FLUID 25% 10.7 OZ.	
Persistence and degradability	Not established.
	Not established.
Diethyl Ether (60-29-7)	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available. Reacts with air.
Biochemical oxygen demand (BOD)	0.03 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.026 g O <sub>2</sub> /g substance (KMnO4)
ThOD	2.60 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.012 % ThOD
Toluene (108-88-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	2.15 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.52 g O <sub>2</sub> /g substance
ThOD	3.13 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.69 % ThOD
Heptane (142-82-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	1.92 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.06 g O <sub>2</sub> /g substance
ThOD	3.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	> % ThOD (5 day(s)) > 0.5
Heptane, Branched Cyclic (426260-76-6) Persistence and degradability	May appeal long term advance effects in the applicament
	May cause long-term adverse effects in the environment.
Petroleum Gases, Liquefied, Sweetened (6847	·
Persistence and degradability	Not established.
Carbon Dioxide, Liquefied, Under Pressure (1	24-38-9)
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
1ST AYD STARTING FLUID 25% 10.7 OZ.	
Bioaccumulative potential	Not established.
Diethyl Ether (60-29-7)	
BCF fish 1	0.9 - 9.1 (Cyprinus carpio; Test duration: 6 weeks)
Log Pow	0.82 - 0.89 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Toluene (108-88-3)	
BCF fish 1	13.2 (Anguilla japonica)
BCF fish 2	90 (72 h; Leuciscus idus)
BCF other aquatic organisms 1	380 (24 h; Chlorella sp.; Fresh weight)
BCF other aquatic organisms 2	4.2 (Mytilus edulis; Fresh weight)
Log Pow	2.73 (Experimental value; Other, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Heptane (142-82-5)	
BCF other aquatic organisms 1	552

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Heptane (142-82-5)		
Log Pow	4.66 (Experimental value; 4.5; Literature)	***************************************
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).	
Heptane, Branched Cyclic (426260-	76-6)	
Bioaccumulative potential	Not established.	· · · · · · · · · · · · · · · · · · ·
Petroleum Gases, Liquefied, Sweete	ened (68476-86-8)	
Bioaccumulative potential Not established.		
Carbon Dioxide, Liquefied, Under P	ressure (124-38-9)	
Log Pow	0.83 (Experimental value)	**************************************
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

#### 12.4. Mobility in soil

Diethyl Ether (60-29-7)		
Surface tension	0.017 N/m (20 °C)	
Toluene (108-88-3)		
Surface tension	0.03 N/m (20 °C)	
Heptane (142-82-5)		
Surface tension	0.020 N/m (20 °C)	

#### 12.5. Other adverse effects

Other information

: Avoid release to the environment.

#### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations

 Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

Additional information

: Flammable vapors may accumulate in the container.

Ecology - waste materials

: Avoid release to the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): ICAO/IATA (air):

UN1950, Aerosols, 2.1, Limited Quantity UN1950, Aerosols, 2.1, Limited Quantity

IMO/IMDG (water):

UN1950, Aerosols, 2.1, Limited Quantity

Special Provisions:

N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT)

: Aerosols

flammable, n.o.s. (engine starting fluid) (each not exceeding 1 L capacity)

Department of Transportation (DOT) Hazard

Classes

: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Hazard labels (DOT)

: 2.1 - Flammable gas



DOT Special Provisions (49 CFR 172.102)

: N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

DOT Packaging Exceptions (49 CFR 173.xxx)

DOT Packaging Non Bulk (49 CFR 173.xxx)

: 306 : 304

DOT Packaging Bulk (49 CFR 173.xxx)

: None

14.3. Additional information

Other information

: No supplementary information available.

#### Overland transport

No additional information available

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Transport by sea

**DOT Vessel Stowage Location** 

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other

: 48 - Stow "away from" sources of heat,87 - Stow "separated from" Class 1 (explosives) except

Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

Air transport

DOT Quantity Limitations Passenger aircraft/rail : Forbidden

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

1ST AYD STARTING FLUID 25% 10.7 OZ.	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard Sudden release of pressure hazard

	Diethyl Ether (60-29-7)	
ĺ	SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
į		Fire hazard

Toluene (108-88-3)	
Listed on United States SARA Section 313 Listed on the United States TSCA (Toxic Subs	tances Control Act) inventory
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard

Heptane, Branched Cyclic (426260-76-6)	
Not listed on the United States TSCA (Toxic Subs	stances Control Act) inventory
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

Distillates (Petroleum), Hydrotreated Heavy N	aphthenic (64742-52-5)
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard

Petroleum Gases, Liquefied, Sweetened (68	3476-86-8)
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard
	Sudden release of pressure hazard

### 15.2. International regulations

### CANADA

1ST AYD STARTING FLUID 25% 1	0.7 OZ.
WHMIS Classification	Class B Division 5 - Flammable Aerosol Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Toluene (108-88-3)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Heptane, Branched Cyclic (42626	D-76-6)
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

### **EU-Regulations**

Toluene (108-88-3)	$\neg$
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	ᅱ

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.1; R45 Muta.Cat.2; R46

01/12/2014 EN (English US)

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F+; R12 Xn; R22 Xi; R38 R19

Full text of R-phrases: see section 16

#### 15.2.2. National regulations

No additional information available

#### 15.3. US State regulations

1ST AYD STARTING FLUID 25% 10.7 OZ.	
U.S California - Proposition 65 - Carcinogens List	Yes
State or local regulations	U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

Toluene (108-88-3)	
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)	

### SECTION 16: Other information

Training advice

: Ensure operators understand the flammability hazard. Ensure operators understand the hazard of oxygen enrichment. Receptacle under pressure.

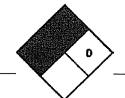
Other information

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Compressed gas	Gases under pressure Compressed gas
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Gas 1	Flammable gases Category 1
Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 2	Flammable liquids Category 2
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
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
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.



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: 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.

### HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability Physical

: 4 Severe Hazard : 1 Slight Hazard

Personal Protection

: B

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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