

Safety Data Sheet

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

Issue date: 10/25/2021 Version: 1.1

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

1.1. Product identifier

Product form : Mixture

Trade name : JOHNSEN'S 50% STARTING FLUID 10.7 OZ.

Product code : 6752

Other means of identification : This diesel fuel additive complies with federal low sulfur content requirements for us in diesel

motor vehicles and nonroad engines.

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

Use of the substance/mixture : Starting Fluid

1.3. Details of the supplier of the safety data sheet

Technical Chemical Company

P.O. BOX 139

Cleburne, Texas 76033

T 817-645-6088

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable aerosol Category 1

Gases under pressure Compressed gas Skin corrosion/irritation Category 2 Carcinogenicity Category 2

Reproductive toxicity Category 2

Specific target organ toxicity — Single exposure, Category 3, Narcosis

Full text of H- and EUH-statements: see section 16

H222 Extremely flammable aerosol

H280 Contains gas under pressure; may explode if heated

H315 Causes skin irritation

H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child

H336 May cause drowsiness or dizziness

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)

Precautionary statements (GHS US)









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

H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

: P201 - Obtain special instructions

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source. P251 - Pressurized container: Do not pierce or burn, even after use.

P261 - Avoid breathing 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.

P321 - Specific treatment: See section 4.1 on SDS

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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.

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P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

2.3. Other hazards

Other hazards which do not result in classification

: Contains gas under pressure; may explode if heated. None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Diethyl Ether	(CAS-No.) 60-29-7	50 – 70	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H336
Petroleum Gases, Liquefied, Sweetened	(CAS-No.) 68476-86-8	10 – 30	Flam. Gas 1, H220 Press. Gas (Comp.), H280
Heptane, Branched Cyclic	(CAS-No.) 426260-76-6	15.264 – 15.9	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
n-Heptane	(CAS-No.) 142-82-5	3.975 – 7.155	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	Press. Gas (Comp.), H280
Distillates (Petroleum), Hydrotreated Heavy Naphthenic	(CAS-No.) 64742-52-5	< 1	Asp. Tox. 1, H304

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. Suspected of causing cancer. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

: Cough. 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.

First-aid measures after skin contact

Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

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 persists.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects

: Suspected of damaging fertility or the unborn child.

Symptoms/effects after inhalation

: Shortness of breath. May cause drowsiness or dizziness.

Symptoms/effects after skin contact

: Itching. Red skin. Skin rash/inflammation. Causes skin irritation.

Symptoms/effects after eye contact

: May cause slight eye irritation . May cause severe irritation. Irritation of the eye tissue.

Inflammation/damage of the eye tissue. Redness of the eye tissue.

Symptoms/effects after ingestion

: May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. 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-

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 open flames. 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. Contain released product, pump into suitable containers. Plug the leak,

cut off the supply.

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

smoking and when leaving work. Provide good ventilation in process area to prevent formatic of vapor. Do not spray on an open flame or other ignition source. Obtain special instructions area and understood. Avoid breathing

dust,fume,gas,mist,vapor spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

Remove contaminated clothes. Always wash hands after handling the product. Separate

working clothes from town clothes. Launder separately. Wash affected areas thereusely often.

working clothes from town clothes. Launder separately. Wash affected areas thoroughly after handling.

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: heat sources. ignition 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

JOHNSEN'S 50% STARTING FLUID 10.7 OZ.	
No additional information available	
Diethyl Ether (60-29-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1200
ACGIH OEL TWA [ppm]	400 ppm

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<u> </u>	
ACGIH OEL STEL	1500 mg/m³
ACGIH OEL STEL [ppm]	500 ppm
USA - OSHA - Occupational Exposure Lim	its
OSHA PEL (TWA) [1]	1200 mg/m³
OSHA PEL (TWA) [2]	400 ppm
n-Heptane (142-82-5)	
USA - ACGIH - Occupational Exposure Lim	nits
ACGIH OEL TWA [ppm]	400 ppm
ACGIH OEL STEL [ppm]	500 ppm
Heptane, Branched Cyclic (426260-76-6)	
USA - ACGIH - Occupational Exposure Lim	nits
ACGIH OEL TWA [ppm]	400 ppm
ACGIH OEL STEL [ppm]	500 ppm
USA - OSHA - Occupational Exposure Lim	
OSHA PEL (TWA) [2]	500 ppm
Distillates (Petroleum), Hydrotreated Heav	
USA - ACGIH - Occupational Exposure Lim	
ACGIH OEL TWA	5 mg/m³ MIST 8 HOURS
USA - OSHA - Occupational Exposure Lim	-
OSHA PEL (TWA) [1]	5 mg/m³ MIST 8 HOURS
Petroleum Gases, Liquefied, Sweetened (6	
USA - ACGIH - Occupational Exposure Lim	
ACGIH OEL TWA [ppm]	1000 ppm Listed under Aliphatic hydrocarbon gases alkane C1-C4
USA - OSHA - Occupational Exposure Lim	11 , 0
OSHA PEL (TWA) [1]	1800 mg/m³
OSHA PEL (TWA) [2]	1000 ppm
USA - NIOSH - Occupational Exposure Lim	
NIOSH REL (TWA)	1800 mg/m³
NIOSH REL TWA [ppm]	1000 ppm
Carbon Dioxide, Liquefied, Under Pressure	
USA - ACGIH - Occupational Exposure Lim	
ACGIH OEL TWA	9000 mg/m ³
ACGIH OEL TWA [ppm]	5000 ppm
ACGIH OEL STEL	54000
ACGIH OEL STEL [ppm]	30000 ppm
USA - OSHA - Occupational Exposure Lim	• • • • • • • • • • • • • • • • • • • •
OSHA PEL (TWA) [1]	9000 mg/m³
OSHA PEL (TWA) [2]	5000 ppm
USA - NIOSH - Occupational Exposure Lim	nits
NIOSH REL (TWA)	9000 mg/m³
NIOSH REL TWA [ppm]	5000 ppm
NIOSH REL (Ceiling)	54000 mg/m³

Appropriate engineering controls

Appropriate engineering controls : Local exhaust venilation, vent hoods . Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses. Avoid all unnecessary exposure.

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE:

Hand protection:

Wear protective gloves

Eye protection:

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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

Personal protective equipment symbol(s):





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 : Gas
Appearance : Liquid.

Color : Colourless to light yellow.

Odor : Ether-like odour.
Odor threshold : No data available
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 : -31.1 °C (Lowest Component)
Flash point : -96.23 °C (Lowest Component)

Auto-ignition temperature : 180 °C

Decomposition temperature : No data available : No data available Flammability (solid, gas) Vapor pressure No data available Relative vapor density at 20 °C : No data available Relative density : No data available Poorly soluble in water. Solubility Partition coefficient n-octanol/water (Log Pow) No data available Partition coefficient n-octanol/water (Log Kow) : No data available : No data available Viscosity, kinematic No data available Viscosity, dynamic

Explosive properties : Heating may cause a fire or explosion.

Oxidizing properties : No data available Explosion limits : No data available

9.2. Other information

VOC content : 93.3 %

Gas group : Compressed gas

SECTION 10: Stability and reactivity

10.1. Reactivity

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.

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.

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10.5. Incom	patible materials
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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 (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Diethyl Ether (60-29-7)	
LD50 oral rat	1600 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 7 day(s))
LD50 dermal rabbit	> 20000 mg/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	97 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
LC50 Inhalation - Rat [ppm]	32000 ppm (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	1600 mg/kg body weight
ATE US (vapors)	97 mg/l/4h
ATE US (dust, mist)	97 mg/l/4h

n-Heptane (142-82-5)	
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Readacross, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 29.29 mg/l/4h (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))

Heptane, Branched Cyclic (426260-76-6)	
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Readacross, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 29.29 mg/l/4h (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value. Inhalation (vapours))

LD50 oral rat > 5000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)

IARC group 3 - Not classifiable

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

STOT-single exposure : May cause drowsiness or dizziness.

Diethyl Ether (60-29-7)	
STOT-single exposure	May cause drowsiness or dizziness.
n-Heptane (142-82-5)	
n-Heptane (142-82-5)	

Heptane, Branched Cyclic (426260-76-6)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

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Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects : Suspected of damaging fertility or the unborn child.

Symptoms/effects after inhalation : Shortness of breath. May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Itching. Red skin. Skin rash/inflammation. Causes skin irritation.

Symptoms/effects after eye contact : May cause slight eye irritation . May cause severe irritation. Irritation of the eye tissue.

Inflammation/damage of the eye tissue. Redness of the eye tissue.

Symptoms/effects after ingestion : May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Diethyl Ether (60-29-7)		
LC50 - Fish [1]	2560 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)	
EC50 - Crustacea [1]	1380 mg/l (NEN 6501: Water - Determination of toxicity with Daphnia magna, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)	
Carbon Diovida Liquefied Under Pressure (124-38-9)		

Carbon Dioxide, Liquefied, Under Pressure (124-38-9)

LC50 - Fish [1] 35 mg/l (96 h, Salmo gairdneri, Literature study, Lethal)

12.2. Persistence and degradability

JOHNSEN'S 50% STARTING FLUID 10.7 OZ.	
Persistence and degradability	Not established.
Diethyl Ether (60-29-7)	
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.03 g O ₂ /g substance
Chemical oxygen demand (COD)	0.026 g O ₂ /g substance (KMnO4)
ThOD	2.6 g O ₂ /g substance
BOD (% of ThOD)	0.012
n-Heptane (142-82-5)	
Daraiatanaa and daaradahilitu	Deadily his degreedable in water Ferming and monte in water Diadegradable in the sail Law

	11-neptane (142-02-3)		
Persistence and degradability		Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air. Not established.	
	Biochemical oxygen demand (BOD)	1.92 g O₂/g substance	
	Chemical oxygen demand (COD)	0.06 a O ₂ /a substance	

 $\begin{array}{ll} \hbox{Chemical oxygen demand (COD)} & 0.06 \text{ g O}_2/\text{g substance} \\ \hbox{ThOD} & 3.52 \text{ g O}_2/\text{g substance} \\ \hbox{Heptane, Branched Cyclic (426260-76-6)} \\ \end{array}$

Persistence and degradability May cause long-term adverse effects in the environment.

Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)

Persistence and degradability Not established.

Petroleum Gases, Liquefied, Sweetened (68476-86-8)

retroleum Gases, Liquenea, Sweetenea (66476-66-6)

Persistence and degradability Not established.

Carbon Dioxide, Liquefied, Under Pressure (124-38-9)

 Persistence and degradability
 Biodegradability: not applicable. Not established.

 Chemical oxygen demand (COD)
 Not applicable (inorganic)

 ThOD
 Not applicable (inorganic)

12.3. Bioaccumulative potential

JOHNSEN'S 50% STARTING FLUID 10.7 OZ.			
Bioaccumulative potential	Not established.		
Diethyl Ether (60-29-7)			
BCF - Fish [1]	2 l/kg (QSAR)		
Partition coefficient n-octanol/water (Log Pow)	0.82 – 0.89 (Experimental value)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
n-Heptane (142-82-5)			
BCF - Other aquatic organisms [1]	552 (BCFBAF v3.00, Calculated value)		
Partition coefficient n-octanol/water (Log Pow)	4.66 (Experimental value)		
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5). Not established.		
Heptane, Branched Cyclic (426260-76-6)			
Bioaccumulative potential	Not established.		

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Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)		
Bioaccumulative potential	Not established.	
Petroleum Gases, Liquefied, Sweetened (68476-86-8)		
Bioaccumulative potential	Not established.	
Carbon Dioxide, Liquefied, Under Pressure (124-38-9)		
Partition coefficient n-octanol/water (Log Pow)	0.83 (Experimental value)	
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4). Not established.		

12.4. Mobility in soil

Diethyl Ether (60-29-7)		
Surface tension	0.017 N/m (20 °C)	
Partition coefficient n-octanol/water (Log Koc)	0.99 – 1.42 (log Koc, SRC PCKOCWIN v2.0, QSAR)	
Ecology - soil	Highly mobile in soil.	
n-Heptane (142-82-5)		
Surface tension	19.66 mN/m (25 °C)	
Partition coefficient n-octanol/water (Log Koc)	2.38 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Low potential for adsorption in soil.	
Carbon Dioxide, Liquefied, Under Pressure (124-38-9)		
Ecology - soil	Not applicable (gas).	

12.5. Other adverse effects

Effect on global warming : No known effects from this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging 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

Department of Transportation (DOT)

In accordance with DOT

US DOT (ground) (DOT) : UN1950 Aerosols (Flammable, n.o.s. (engine starting fluid) (each not exceeding 1 L capacity)),

2.1

UN-No.(DOT) : UN1950
Proper Shipping Name (DOT) : Aerosols

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

Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Hazard labels (DOT) : LTD QTY - Limited quantity



DOT Packaging Non Bulk (49 CFR 173.xxx) : 304 DOT Packaging Bulk (49 CFR 173.xxx) : None

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) : 306
DOT Quantity Limitations Passenger aircraft/rail : Forbidden (49 CFR 173.27)

DOT Owner that here's

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

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

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Other information : No supplementary information available.

Transport by sea

: UN1950, Aerosol, 2.1, (Marine Pollutant- Heptane), LTD. QTY. UN-No. (IMDG)

Class (IMDG) : 2.1 - Flammable gases

Air transport

UN-No. (IATA) : 1950 Proper Shipping Name (IATA) : Aerosols

Class (IATA) : 2.1 - Gases : Flammable

SECTION 15: Regulatory information

Hontana Branchad Cyclic (426260-76-6)

15.1. US Federal regulations

JOHNSEN'S 50% STARTING FLUID 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)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	100 lb	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard	

n-Heptane (142-82-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

	neplane, branched Cyclic (420200-70-0)		
	Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		Immediate (acute) health hazard	

Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard

Petroleum Gases, Liquefied, Sweetened (68476-86-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Fire hazard Sudden release of pressure hazard

Carbon Dioxide, Liquefied, Under Pressure (124-38-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes Sudden release of pressure hazard Immediate (acute) health hazard

15.2. International regulations

CANADA

JOHNSEN'S 50% STARTING FLUID 10.7 OZ.		
WHMIS Classification	Class B Division 5 - Flammable Aerosol	
Diethyl Ether (60-29-7)		

Listed on the Canadian DSL (Domestic Substances List)

n-Heptane (142-82-5)

Listed on the Canadian DSL (Domestic Substances List)

Heptane, Branched Cyclic (426260-76-6)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)

Listed on the Canadian DSL (Domestic Substances List)

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Petroleum Gases, Liquefied, Sweetened (68476-86-8)

Listed on the Canadian DSL (Domestic Substances List)

Carbon Dioxide, Liquefied, Under Pressure (124-38-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

n-Heptane (142-82-5)

Heptane, Branched Cyclic (426260-76-6)

Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)

Petroleum Gases, Liquefied, Sweetened (68476-86-8)

Carbon Dioxide, Liquefied, Under Pressure (124-38-9)

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

Not classified

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

15.2.2. National regulations

n-Heptane (142-82-5)

Heptane, Branched Cyclic (426260-76-6)

JOHNSEN'S 50% STARTING FI UID 10.7 OZ ()

Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)

Petroleum Gases, Liquefied, Sweetened (68476-86-8)

Carbon Dioxide, Liquefied, Under Pressure (124-38-9)

No

15.3. US State regulations

No

JOHNSEN'S 50% STAF	RTING FLUID 10.7 OZ.()			
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Propo Toxicity	sition 65 - Developmental	No		
U.S California - Propo Toxicity - Female	sition 65 - Reproductive	No		
U.S California - Propo Toxicity - Male	sition 65 - Reproductive	No		
State or local regulations	s	U.S California - Proposition	1 65	
Diethyl Ether (60-29-7)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	No	No	
n-Heptane (142-82-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Heptane, Branched Cy	rclic (426260-76-6)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Distillates (Petroleum)	, Hydrotreated Heavy Naphth	enic (64742-52-5)		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity -	U.S California - Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)

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Male

No

Female

No

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Petroleum Gases, Liquefied, Sweetened (68476-86-8)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No	No	No		
Carbon Dioxide, Liquefied	Carbon Dioxide, Liquefied, Under Pressure (124-38-9)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No	No	No		

Diethyl Ether (60-29-7)

State or local regulations

- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York City Right to Know Hazardous Substances List
- U.S. Pennsylvania RTK (Right to Know) List

n-Heptane (142-82-5)

State or local regulations

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York City Right to Know Hazardous Substances List
- U.S. Pennsylvania RTK (Right to Know) List

Carbon Dioxide, Liquefied, Under Pressure (124-38-9)

State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York City Right to Know Hazardous Substances List U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

: None. Other information

Full text of H-phrases:

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
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
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 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

: 4 - Materials that rapidly or completely vaporize at NFPA fire hazard atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.

: 0 - Material that in themselves are normally stable, even NFPA reactivity under fire conditions.

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Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 4 Severe Hazard Physical : 1 Slight Hazard

Personal protection : B

The Supplier identified in Section 1 of this SDS 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

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. Published by Ruben Morales

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