

# Safety Data Sheet

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

Revision date: 10/31/2014 Version:

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

**Product identifier** 

Product form : Mixture

Trade name : JOHNSEN'S POWER STEERING FLUID 32 FL.OZ.

: 4610 Product code

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

Use of the substance/mixture : Power Steering Fluid

### Details of the supplier of the safety data sheet

**Technical Chemical Company** P.O. BOX 139 Cleburne, Texas 76033 T 817-645-6088

### **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)**

Not classified

### **Label elements**

# **GHS-US** labeling

Signal word (GHS-US) : Warning

### Other hazards

Other hazards not contributing to the

classification

: None under normal conditions.

# **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)
Distillates (Petroleum), Hydrotreated Heavy Naphthenic	(CAS No) 64742-52-5	>= 95	Not classified
2-(2-Butoxyethoxy) Ethanol	(CAS No) 112-34-5	1 - 5	Eye Irrit. 2A, H319
Dipropylene Glycol Monomethyl Ether	(CAS No) 34590-94-8	< 1	Flam. Liq. 4, H227
White Mineral Oil (Petroleum)	(CAS No) 8042-47-5	0.03 - 0.06	Asp. Tox. 1, H304
Lubricating Oils (Petroleum), C15-30, Hydrotreated Neutral Oil-Based	(CAS No) 72623-86-0	0.03 - 0.06	Not classified
Paraffinum Liquidum	(CAS No) 8012-95-1	0.03 - 0.06	Not classified
2,6-Di-tert-butylphenol	(CAS No) 128-39-2	0.001 - 0.0049	Not classified
Tail Gas (Petroleum), Saturate Gas Plant Mixed Stream, C4-Rich	(CAS No) 68478-32-0	0.001 - 0.0049	Not classified
Dibutyl Phosphonate	(CAS No) 1809-19-4	0.001 - 0.0049	Acute Tox. 4 (Dermal), H312
Petroleum Naphtha	(CAS No) 64742-47-8	< 1	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Dye-Automate Yellow	(CAS No) Mixture	< 1	Not classified
Toluene	(CAS No) 108-88-3	0.0001 - 0.0009	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

### SECTION 4: First aid measures

### **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

: Assure fresh air breathing. Allow the victim to rest. First-aid measures after inhalation

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First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

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/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Symptoms/injuries after skin contact : May cause slight irritation . Itching. Red skin. Skin rash/inflammation.

Symptoms/injuries after eye contact : May cause slight eye irritation . Inflammation/damage of the eye tissue. Irritation of the eye

tissue. Redness of the eye tissue.

Symptoms/injuries after ingestion : May be harmful 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 : Insufficient data available on direct fire hazard (flashpoint > 200°C).

# 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.

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

### **SECTION 6: Accidental release measures**

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

General measures : Remove ignition sources.

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.

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 substance, pump into suitable containers. Plug the leak,

cut off the supply.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. 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

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.

Hygiene measures : W

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. 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 : Keep container

closed when not in use.

Incompatible products : Strong bases. Strong acids.

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Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

Follow Label Directions.

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

### 8.1. Control parameters

Distillates (Petroleum), 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

2-(2-Butoxyethoxy) Ethanol (112-34-5)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	10 ppm

Dipropylene Glycol Monomethyl Ether (34590-94-8)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	100 ppm

Toluene (108-88-3)           USA ACGIH         ACGIH TWA (mg/m³)         75 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

White Mineral Oil (Petroleum) (8042-47-5)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA ACGIH	ACGIH STEL (mg/m³)	10 mg/m³

# 8.2. Exposure controls

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

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 : Wear appropriate mask.

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 : Liquid
Appearance : Liquid.

Color : Colourless to yellow.
Odor : Petroleum-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 :  $204 \, ^{\circ}\text{C}$ Flash point :  $> 93 \, ^{\circ}\text{C}$ 

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available

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Vapor pressure : No data available Relative vapor density at 20 °C : No data available

Relative density : 0.88

Solubility : Poorly soluble in water.

Water: < 4 %

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : 21.6 cSt @ 40 deg C
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available

9.2. Other information

VOC content : 2 %

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

# 10.2. Chemical stability

Not established.

## 10.3. Possibility of hazardous reactions

Not established.

# 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 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

Distillates (Petroleum), Hydrotreated 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

2-(2-Butoxyethoxy) Ethanol (112-34-5)	
LD50 oral rat	5660 mg/kg (Rat)
LD50 dermal rabbit	2764 mg/kg (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)

Dipropylene Glycol Monomethyl Ether (34590-94-8)	
LD50 oral rat	5135 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg; Rat; Experimental value)
LD50 dermal rat	9500 mg/kg (Rat; Literature study; Equivalent or similar to OECD 402; >19020 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	9500 mg/kg (Rabbit; Literature study)

2,6-Di-tert-butylphenol (128-39-2)		
	LD50 oral rat	> 2000 mg/kg (Rat)
	LD50 dermal rat	> 1000 mg/kg (Rat)
	LD50 dermal rabbit	> 10000 mg/kg (Rabbit)

Dibutyl Phosphonate (1809-19-4)	
LD50 oral rat	3200 mg/kg (Rat)
LD50 dermal rabbit	1990 mg/kg (Rabbit)

	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)

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Toluene (108-88-3)		
LD50 dermal rabbit	lermal 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)	
White Mineral Oil (Petroleum) (8042-4	17-5)	
LD50 oral rat	> 5000 mg/kg (Rat; Experimental value, Rat; Experimental value)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value, Rabbit; Experimental value)	
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (Rat; Experimental value)	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Distillates (Petroleum), Hydrotreated	Heavy Naphthenic (64742-52-5)	
IARC group	3	
Toluene (108-88-3)		
IARC group	3	

White Mineral Oil (Petroleum) (8042-47-5)

IARC group 3

: Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Potential Adverse human health effects and

Symptoms/injuries after inhalation

symptoms

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

: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/injuries after skin contact : May cause slight irritation . Itching. Red skin. Skin rash/inflammation.

May cause slight eye irritation . Inflammation/damage of the eye tissue. Irritation of the eye Symptoms/injuries after eye contact

tissue. Redness of the eye tissue.

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

# **SECTION 12: Ecological information**

# **Toxicity**

2-(2-Butoxyethoxy) Ethanol (112-34-5)	
LC50 fish 1	1300 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	2850 mg/l (24 h; Daphnia magna; GLP)
LC50 fish 2	1805 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 2	> 100 mg/l (48 h; Daphnia magna)
TLM fish 1	10 - 100,96 h; Pisces
TLM other aquatic organisms 1	10 - 100,96 h
Threshold limit other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	53 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 2	>= 100 mg/l (96 h; Scenedesmus subspicatus)

Dipropylene Glycol Monomethyl Ether (34590-94-8)	
LC50 fish 1	> 10000 mg/l (96 h; Pimephales promelas; GLP)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h; Crangon crangon)
LC50 fish 2	> 150 mg/l (72 h; Pisces)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h; Crangon crangon)
Threshold limit algae 1	969 mg/l (72 h; Selenastrum capricornutum; GLP)
Threshold limit algae 2	> 969 mg/l (72 h; Selenastrum capricornutum; GLP)

2,6-Di-tert-butylphenol (128-39-2)	
EC50 Daphnia 1	0.45 mg/l (48 h; Daphnia magna; Flow-through system)

T	Toluene (108-88-3)	
L	C50 fish 1	24 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Е	C50 Daphnia 1	84 mg/l (24 h; Daphnia magna; Locomotor effect)

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Toluene (108-88-3)		
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)		
White Mineral Oil (Petroleum) (8042-47-5)		
LC50 fish 1	> 100 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)	
Threshold limit algae 1	>= 100 mg/l (72 h; Pseudokirchneriella subcapitata; Growth rate)	
12.2. Persistence and degradability		
JOHNSEN'S POWER STEERING FLUID 32 FL		
Persistence and degradability	Not established.	
2-(2-Butoxyethoxy) Ethanol (112-34-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available. Photodegradation in the air.	
Biochemical oxygen demand (BOD)	0.25 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	2.08 g O <sub>2</sub> /g substance	
ThOD	2.173 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.11 % ThOD	
,	0.4.9\	
Dipropylene Glycol Monomethyl Ether (34590 Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.	
·	Photolysis in the air.	
Biochemical oxygen demand (BOD)	0 g O <sub>2</sub> /g substance	
ThOD	2.06 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0 % ThOD	
Petroleum Naphtha (64742-47-8)		
Persistence and degradability	Not established.	
2,6-Di-tert-butylphenol (128-39-2)		
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.	
BOD (% of ThOD)	(5 day(s)) 0.077	
Tail Gas (Petroleum), Saturate Gas Plant Mixe		
Persistence and degradability	Not established.	
Dibutyl Phosphonate (1809-19-4)		
Descriptions and Co. 1009		
Persistence and degradability	Biodegradability in water: no data available. Photodegradation in the air.	
	Biodegradability in water: no data available. Photodegradation in the air.	
Toluene (108-88-3)		
Toluene (108-88-3) Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. 2.15 g $O_2$ /g substance	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. 2.15 g $O_2$ /g substance 2.52 g $O_2$ /g substance 3.13 g $O_2$ /g substance	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. 2.15 g $O_2$ /g substance 2.52 g $O_2$ /g substance 3.13 g $O_2$ /g substance 0.69 % ThOD	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. 2.15 g $O_2$ /g substance 2.52 g $O_2$ /g substance 3.13 g $O_2$ /g substance	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  eated Neutral Oil-Based (72623-86-0)	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.   2.15 g $O_2$ /g substance   2.52 g $O_2$ /g substance   3.13 g $O_2$ /g substance   0.69 % ThOD	
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Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability  Paraffinum Liquidum (8012-95-1)  Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  eated Neutral Oil-Based (72623-86-0)  Not established.	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability  Paraffinum Liquidum (8012-95-1)  Persistence and degradability  Dye-Automate Yellow (Mixture)	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  **eated Neutral Oil-Based (72623-86-0)*  Not established.  Not established.	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability  Paraffinum Liquidum (8012-95-1)  Persistence and degradability  Dye-Automate Yellow (Mixture)  Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  eated Neutral Oil-Based (72623-86-0)  Not established.	
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Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability  Paraffinum Liquidum (8012-95-1)  Persistence and degradability  Dye-Automate Yellow (Mixture)  Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  eated Neutral Oil-Based (72623-86-0)  Not established.  Not established.	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability  Paraffinum Liquidum (8012-95-1)  Persistence and degradability  Dye-Automate Yellow (Mixture)  Persistence and degradability  12.3. Bioaccumulative potential	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  eated Neutral Oil-Based (72623-86-0)  Not established.  Not established.	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability  Paraffinum Liquidum (8012-95-1)  Persistence and degradability  Dye-Automate Yellow (Mixture)  Persistence and degradability  12.3. Bioaccumulative potential  JOHNSEN'S POWER STEERING FLUID 32 FL.  Bioaccumulative potential	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  eated Neutral Oil-Based (72623-86-0)  Not established.  Not established.	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability  Paraffinum Liquidum (8012-95-1)  Persistence and degradability  Dye-Automate Yellow (Mixture)  Persistence and degradability  12.3. Bioaccumulative potential  JOHNSEN'S POWER STEERING FLUID 32 FL.  Bioaccumulative potential  2-(2-Butoxyethoxy) Ethanol (112-34-5)	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  eated Neutral Oil-Based (72623-86-0)  Not established.  Not established.  Not established.	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability  Paraffinum Liquidum (8012-95-1)  Persistence and degradability  Dye-Automate Yellow (Mixture)  Persistence and degradability  12.3. Bioaccumulative potential  JOHNSEN'S POWER STEERING FLUID 32 FL.  Bioaccumulative potential  2-(2-Butoxyethoxy) Ethanol (112-34-5)  BCF fish 1	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  eated Neutral Oil-Based (72623-86-0)  Not established.  Not established.  Not established.  OZ.  Not established.	
Toluene (108-88-3)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  White Mineral Oil (Petroleum) (8042-47-5)  Persistence and degradability  Lubricating Oils (Petroleum), C15-30, Hydrotr  Persistence and degradability  Paraffinum Liquidum (8012-95-1)  Persistence and degradability  Dye-Automate Yellow (Mixture)  Persistence and degradability  12.3. Bioaccumulative potential  JOHNSEN'S POWER STEERING FLUID 32 FL.  Bioaccumulative potential  2-(2-Butoxyethoxy) Ethanol (112-34-5)	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.  2.15 g O <sub>2</sub> /g substance  2.52 g O <sub>2</sub> /g substance  3.13 g O <sub>2</sub> /g substance  0.69 % ThOD  Not readily biodegradable in water. No (test)data on mobility of the substance available.  eated Neutral Oil-Based (72623-86-0)  Not established.  Not established.  Not established.	

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Dipropylene Glycol Monomethyl Ether (34590-94-8)	
Log Pow	0.0043 (Experimental value; OECD 102: Melting Point/Melting Range; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Petroleum Naphtha (64742-47-8)	
Bioaccumulative potential	Not established.
2,6-Di-tert-butylphenol (128-39-2)	
BCF fish 1	660 (72 h; Leuciscus idus)
BCF other aquatic organisms 1	800 (24 h; Chlorella sp.)
Log Pow	4.92
Bioaccumulative potential	Not established.
Tail Gas (Petroleum), Saturate Gas Plant Mix	ed Stream, C4-Rich (68478-32-0)
Bioaccumulative potential	Not established.
Dibutyl Phosphonate (1809-19-4)	
Log Pow	1.81 (Estimated value)
Bioaccumulative potential	Bioaccumable.
·	
<b>Toluene (108-88-3)</b> BCF fish 1	42.0 (Apprilla ignoriae)
BCF fish 2	13.2 (Anguilla japonica) 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).
White Mineral Oil (Petroleum) (8042-47-5)	
Bioaccumulative potential	No bioaccumulation data available.
·	
Lubricating Oils (Petroleum), C15-30, Hydroti	Not established.
Bioaccumulative potential	Not established.
Paraffinum Liquidum (8012-95-1)	
Bioaccumulative potential	Not established.
Dye-Automate Yellow (Mixture)	
Bioaccumulative potential	Not established.
2.4. Mobility in soil	
2-(2-Butoxyethoxy) Ethanol (112-34-5)	
Surface tension	0.034 N/m (25 °C)
Toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)
40.5 Other advance effects	
12.5. Other adverse effects Other information	: Avoid release to the environment.
Julei iiiiOIIIIaliOII	. Avoid release to the environment.
SECTION 13: Disposal considerations	

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to appropriate waste disposal facility, in accordance with local,

 $regional,\ national,\ international\ regulations.\ .\ Dispose\ in\ a\ safe\ manner\ in\ accordance\ with$ 

local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

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

US DOT (ground): Not regulated, ICAO/IATA (air): Not Regulated, IMO/IMDG (water): Not Regulated,

# 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated

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### 14.3. Additional information

Other information

: No supplementary information available.

#### **Overland transport**

No additional information available

### Transport by sea

No additional information available

#### Air transport

No additional information available

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

JOHNSEN'S F	POWER STEERING	FLUID 32 FL.OZ.
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SARA Section 311/312 Hazard Classes

Delayed (chronic) health hazard Immediate (acute) health hazard

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

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

### 2-(2-Butoxyethoxy) Ethanol (112-34-5)

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard
Delayed (chronic) health hazard
Reactive hazard

### Petroleum Naphtha (64742-47-8)

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

SARA Section 311/312 Hazard Classes Fire hazard

Delayed (chronic) health hazard

### Toluene (108-88-3)

Listed on United States SARA Section 313

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

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

Fire hazard

Immediate (acute) health hazard

# White Mineral Oil (Petroleum) (8042-47-5)

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

# 15.2. International regulations

### **CANADA**

2-(2-Butoxyethoxy) Ethanol (112-
----------------------------------

Listed on the Canadian DSL (Domestic Sustances List)
WHMIS Classification Classification

WHMIS Classification

Class B Division 3 - Combustible Liquid

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

### White Mineral Oil (Petroleum) (8042-47-5)

Listed on the Canadian DSL (Domestic Sustances List)

### **EU-Regulations**

### Toluene (108-88-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### White Mineral Oil (Petroleum) (8042-47-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

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

Carc.Cat.2; R45

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Full text of R-phrases: see section 16

### 15.2.2. National regulations

No additional information available

# 15.3. US State regulations

# Petroleum Naphtha (64742-47-8)

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**

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Dermal)	Aguta taviaity (darmal) Catagory A
,	Acute toxicity (dermal) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
ye Irrit. 2A Serious eye damage/eye irritation Category 2A	
Flammable liquids Category 2	
Flam. Liq. 3 Flammable liquids Category 3	
Flam. Liq. 4	Flammable liquids Category 4
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
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

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

and are not reactive with water.



# **HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012) - TCC

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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

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.

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