

Safety Data Sheet

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

Revision date: 04/19/2017 Supersedes:10/19/2015 Version: 1.2

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

1.1. Product identifier

Product form : Mixture

Trade name : JOHNSEN'S PREMIUM DOT 3 BRAKE FLUID 450 DEG 32 FL.OZ.

Product code : 2232

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

Use of the substance/mixture : Brake Fluid

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Repr. 2 H361 STOT RE 2 H373

Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS05

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GHS07 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

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

P260 - Do not breathe dust, fumes, gas,mist, vapor spray P264 - Wash affected areas thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P312 - If swallowed: Call a poison center, doctor if you feel unwell

P302+P352 - If on skin: Wash with plenty of soap and water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention

P310 - Immediately call a poison center,doctor, physician P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment: See section 4.1 on SDS

P330 - Rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

P405 - Store locked up

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 : None under normal conditions.

21/04/2017 EN (English) 1/12

Safety Data Sheet

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

classification

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Triethylene Glycol Monomethyl Ether	(CAS No) 112-35-6	5 - 50	Not classified as hazardous
Triethyleneglycol Monoethyl Ether	(CAS No) 112-50-5	5 - 50	Not classified as hazardous
Triethylene Glycol Monobutyl Ether	(CAS No) 143-22-6	5 - 50	Eye Dam. 1, H318
3,6,9,12-Tetraoxahexadecane-1-ol	(CAS No) 1559-34-8	5 - 20	Not classified as hazardous
Polyethylene Glycol 200-600	(CAS No) 25322-68-3	5 - 20	Not classified as hazardous
2-(2-Butoxyethoxy) Ethanol	(CAS No) 112-34-5	5 - 20	Eye Irrit. 2A, H319
Tetraethylene Glycol Monomethyl Ether	(CAS No) 23783-42-8	5 - 20	Not classified as hazardous
Oxirane, 2-Methyl-, Polymer with Oxirane, Monobutyl Ether	(CAS No) 9038-95-3	5 - 20	Not classified as hazardous
Polyalkylene Glycol Monobutyl Ether	(CAS No) 9004-77-7	5 - 20	Not classified as hazardous
Diethylene Glycol	(CAS No) 111-46-6	5 - 15	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Diethylene Glycol Monomethyl Ether	(CAS No) 111-77-3	< 5	Flam. Liq. 4, H227 Repr. 2, H361
Diethyleneglycolmonoethyl Ether	(CAS No) 111-90-0	< 5	Eye Irrit. 2A, H319
Trade Secret Inhibitor Package	(CAS No) Trade Secret	< 3	Not classified as hazardous

The exact percentage is a trade secret.

SECTION 4: First aid measures

	4.1. I	Descrip	tion of	first aid	l measures
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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 : Allow breathing of fresh air. Allow the victim to rest.

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.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries : Suspected of damaging fertility or the unborn child. Causes damage to organs.

Symptoms/injuries after inhalation : May cause irritation or asthma-like symptoms.

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

Symptoms/injuries after eye contact : Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue.

Causes serious eye damage.

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

Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

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.

21/04/2017 EN (English) 2/12

Safety Data Sheet

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

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 vapour. Obtain special instructions. Do not handle until all safety precautions have been read and understood. Avoid breathing dust,fume,gas,mist,vapor spray.

Hygiene measures : Wash contaminated clothing before reuse. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Always wash hands after handling the product.

Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

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

applicable regulations.

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.

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

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

USA ACGIH

ACGIH TWA (ppm)

10 ppm (Diethylene glycol monobutyl ether; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)

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.



Materials for protective clothing : GIVE EXCELLENT RESISTANCE:

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.

Environmental exposure controls : Avoid release to the environment.

Consumer exposure controls : Avoid contact during pregnancy/while nursing.

Other information : Do not eat, drink or smoke during use.

21/04/2017 EN (English) 3/12

Safety Data Sheet

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.

Colour : Colourless to light yellow.

Odour : Mild.

Odour threshold : No data available pH : 7.5 - 11.5

Relative evaporation rate (butylacetate=1) : < 0.01

Melting point : No data available
Freezing point : No data available
Boiling point : 232 - 273 °C
Flash point : > 135 °C
Auto-ignition temperature : 310 °C

Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : < 0.01 mm Hg Relative vapour density at 20 °C > 1 (air=1) Relative density : 1.025 - 1.075 Solubility : Soluble in water. Log Pow : No data available Log Kow : No data available Viscosity, kinematic : 2 mm²/s @ 100 deg C Viscosity, dynamic : No data available : No data available Explosive properties Oxidising properties : No data available **Explosive limits** : No data available

9.2. Other information

VOC content : < 1 %

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

None. 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 : Oral: Harmful if swallowed.

JOHNSEN'S PREMIUM DOT 3 BRAKE FLUID 450 DEG 32 FL.OZ.		
LD50 oral rat	> 2000 mg/kg	
Triethylene Glycol Monomethyl Ether (112-35-6)		
LD50 oral rat	11865 mg/kg (Rat)	
LD50 dermal rabbit	7455 mg/kg (Rabbit)	
Triethyleneglycol Monoethyl Ether (112-50-5)		
LD50 oral rat	7750 mg/kg (Rat)	

21/04/2017 EN (English) 4/12

Safety Data Sheet

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

Triethyleneglycol Monoethyl Ether (112-50-	5)
LD50 dermal rabbit	8168 mg/kg (Rabbit)
Triethylene Glycol Monobutyl Ether (143-22 LD50 oral rat	
LD50 dermal rabbit	> 5000 mg/kg (Rat) 3480 mg/kg (Rabbit)
3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rat	> 4000 mg/kg (Rat)
Polyethylene Glycol 200-600 (25322-68-3)	
LD50 oral rat	> 15000 mg/kg (Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)
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)
Diethylene Glycol (111-46-6)	
LD50 dermal rabbit	11890 mg/kg (Rabbit)
Diethylene Glycol Monomethyl Ether (111-7	7-3)
LD50 oral rat	4140 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat)
Diethyleneglycolmonoethyl Ether (111-90-0	
LD50 oral rat	5445 mg/kg (Rat)
LD50 dermal rat	5940 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h (Rat)
Tetraethylene Glycol Monomethyl Ether (23	783-42-8)
LD50 oral rat	> 15000 mg/kg (Rat)
Oxirane, 2-Methyl-, Polymer with Oxirane, N	Monobutyl Ether (9038-95-3)
LD50 oral rat	> 2000 mg/kg bodyweight (Rat)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit)
kin corrosion/irritation	: Causes skin irritation.
	pH: 7.5 - 11.5
erious eye damage/irritation	: Causes serious eye damage.
	pH: 7.5 - 11.5
espiratory or skin sensitisation	: Not classified as hazardous
serm cell mutagenicity	: Not classified as hazardous
arcinogenicity	: Not classified as hazardous
Polyalkylene Glycol Monobutyl Ether (9004	I-77-7)
IARC group	4
eproductive toxicity	: Suspected of damaging fertility or the unborn child.
pecific target organ toxicity (single exposure)	: Not classified as hazardous
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pecific target organ toxicity (repeated xposure)	: May cause damage to organs through prolonged or repeated exposure.
spiration hazard	: Not classified as hazardous
otential adverse human health effects and ymptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
ymptoms/injuries after inhalation	: May cause irritation or asthma-like symptoms.
ymptoms/injuries after skin contact	: Itching. Skin rash/inflammation. Red skin. Causes skin irritation.
ymptoms/injuries after eye contact	: Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue. Causes serious eye damage.

12.1. **Toxicity**

Triethylene Glycol Monomethyl Ether (112-35-6)	
LC50 fish 1	> 5000 mg/l (LC50; 96 h)

21/04/2017 5/12 EN (English)

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

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Triethylene Glycol Monomethyl Ether (112-	35-6)
EC50 Daphnia 1	> 10000 mg/l (LC50; 48 h)
Threshold limit algae 1	> 500 mg/l (EC50; 72 h)
Triethyleneglycol Monoethyl Ether (112-50-	5)
LC50 fish 1	> 10000 mg/l (LC50; 96 h)
EC50 Daphnia 1	> 10000 mg/l (LC50; 48 h)
Triethylene Glycol Monobutyl Ether (143-22	-6)
LC50 fish 2	2200 mg/l (LC50; 96 h)
EC50 Daphnia 2	> 500 mg/l (EC50; 48 h)
Threshold limit algae 1	> 500 mg/l (EC50; 72 h)
3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-	8)
LC50 fish 1	> 1409 mg/l (LC50; 96 h)
EC50 Daphnia 1	> 1000 mg/l (EC50; 48 h)
Threshold limit algae 1	> 1000 mg/l (EC50; 96 h)
Polyethylene Glycol 200-600 (25322-68-3)	
LC50 fish 2	> 5000 mg/l (LC50; 24 h)
Threshold limit algae 2	500 mg/l (EC0; 720 h)
2-(2-Butoxyethoxy) Ethanol (112-34-5)	
LC50 fish 1	1300 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Lepomis macrochirus; Static
LOOU HOLL I	system; Fresh water; Experimental value)
EC50 Daphnia 2	> 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Diethylene Glycol (111-46-6)	
LC50 fish 1	> 5000 ppm (LC50; 24 h)
EC50 Daphnia 1	> 10000 mg/l (EC50; 24 h)
Diethylene Glycol Monomethyl Ether (111-7	
LC50 fish 1	1000 mg/l (LC50; 96 h)
EC50 Daphnia 1	> 500 mg/l (EC50; 48 h)
Threshold limit algae 1	> 500 mg/l (EC50; 72 h)
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Diethyleneglycolmonoethyl Ether (111-90-0	
Diethyleneglycolmonoethyl Ether (111-90-0	,
LC50 fish 1	12900 mg/l (LC50; 96 h; Salmo gairdneri)
LC50 fish 1 EC50 Daphnia 1	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h)
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8)
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) flonobutyl Ether (9038-95-3)
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, N LC50 other aquatic organisms 1	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, N LC50 other aquatic organisms 1 12.2. Persistence and degradability	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Monobutyl Ether (9038-95-3) > 10000 mg/l (96 h)
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Monobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, N LC50 other aquatic organisms 1 12.2. Persistence and degradability	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Monobutyl Ether (9038-95-3) > 10000 mg/l (96 h)
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Monobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, N LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII Persistence and degradability	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) flonobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3)	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Monobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 35-6) Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUIT Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Monobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 35-6) Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUIT Persistence and degradability Triethylene Glycol Monomethyl Ether (112-50- Persistence and degradability Triethyleneglycol Monoethyl Ether (112-50-	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) flonobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 35-6) Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. 5) Readily biodegradable in water.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, Market LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUIT Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethyleneglycol Monomethyl Ether (112-50-4) Persistence and degradability	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) flonobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 35-6) Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. 5) Readily biodegradable in water.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUIT Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethyleneglycol Monoethyl Ether (112-50-4) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22)	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Monobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 35-6) Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. 5) Readily biodegradable in water.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUIT Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethyleneglycol Monoethyl Ether (112-50-4) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22) Persistence and degradability	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Monobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 35-6) Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. 5) Readily biodegradable in water.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUIT Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethyleneglycol Monoethyl Ether (112-50-4) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22) Persistence and degradability Biochemical oxygen demand (BOD)	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8 > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Nonobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 10
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethyleneglycol Monoethyl Ether (112-50-4) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8 > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Nonobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 10
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethyleneglycol Monoethyl Ether (112-50-4) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) 3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-4)	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8 > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Innobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. Inherently biodegradable in water. Readily biodegradable in water. Readily biodegradable in water. 0.02 g O₂ /g substance 1.83 g O₂ /g substance 1.83 g O₂ /g substance
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethylene Glycol Monoethyl Ether (112-3) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) 3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-4) Persistence and degradability ThOD	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8 > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Innobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. Inherently biodegradable in water. Readily biodegradable in water. C-6 Readily biodegradable in water. 1.83 g O ₂ /g substance 1.83 g O ₂ /g substance 1.83 g O ₂ /g substance Not readily biodegradable in water. Inherently biodegradable.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethyleneglycol Monoethyl Ether (112-50-4) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) 3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-4) Persistence and degradability	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8 > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Nonobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 335-6 Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. Signature
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUID Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethylene Glycol Monomethyl Ether (112-50-4) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) 3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-4) Persistence and degradability ThOD Polyethylene Glycol 200-600 (25322-68-3) Persistence and degradability	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8 > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Innobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. Inherently biodegradable in water. Readily biodegradable in water. C-6 Readily biodegradable in water. 1.83 g O ₂ /g substance 1.83 g O ₂ /g substance 1.83 g O ₂ /g substance Not readily biodegradable in water. Inherently biodegradable.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII Persistence and degradability Triethylene Glycol Monomethyl Ether (112-50-Persistence and degradability Triethylene Glycol Monobutyl Ether (1143-22 Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22 Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) 3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-Persistence and degradability ThOD	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8 > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Nonobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. Inherently biodegradable in water. O 2 g O2 /g substance 1.83 g O2 /g substance 1.83 g O2 /g substance 1.80 g O2 /g substance Biodegradablity in water: no data available. Not established. Readily biodegradable in water: no data available. Not established.
LC50 fish 1 EC50 Daphnia 1 Tetraethylene Glycol Monomethyl Ether (23 LC50 fish 1 Oxirane, 2-Methyl-, Polymer with Oxirane, M. LC50 other aquatic organisms 1 12.2. Persistence and degradability JOHNSEN'S PREMIUM DOT 3 BRAKE FLUII Persistence and degradability Triethylene Glycol Monomethyl Ether (112-3) Persistence and degradability Triethyleneglycol Monomethyl Ether (112-50-4) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22) Persistence and degradability Triethylene Glycol Monobutyl Ether (143-22) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) 3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-4) Persistence and degradability ThOD Polyethylene Glycol 200-600 (25322-68-3) Persistence and degradability 2-(2-Butoxyethoxy) Ethanol (112-34-5)	12900 mg/l (LC50; 96 h; Salmo gairdneri) 3940 mg/l (EC50; 48 h) 783-42-8) > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) Monobutyl Ether (9038-95-3) > 10000 mg/l (96 h) D 450 DEG 32 FL.OZ. Not established. 35-6) Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. 5) Readily biodegradable in water. -6) Readily biodegradable in water. 0.02 g O₂ /g substance 1.83 g O₂ /g substance 1.83 g O₂ /g substance 8) Not readily biodegradable in water. Inherently biodegradable. 2.05 g O₂ /g substance

21/04/2017 EN (English) 6/12

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

2 (2 But any oth any) Fth and (442 24 5)	<u></u>
2-(2-Butoxyethoxy) Ethanol (112-34-5)	0.00 x 0. /x xxhxtxxxx
Chemical oxygen demand (COD)	2.08 g O ₂ /g substance
ThOD	2.173 g O ₂ /g substance
BOD (% of ThOD)	0.11
Diethylene Glycol (111-46-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance
ThOD	1.51 g O ₂ /g substance
BOD (% of ThOD)	0.015
Diethylene Glycol Monomethyl Ether (111	-77-3)
Persistence and degradability	Readily biodegradable in water. Photolysis in the air. Photodegradation in the air.
Chemical oxygen demand (COD)	1.71 g O ₂ /g substance
ThOD	1.73 g O ₂ /g substance
Diethyleneglycolmonoethyl Ether (111-90-	0)
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.20 g O ₂ /g substance
Chemical oxygen demand (COD)	1.85 g O ₂ /g substance
ThOD	1.9078849 g O ₂ /g substance
BOD (% of ThOD)	0.11
Tetraethylene Glycol Monomethyl Ether (2	23783-42-8)
Persistence and degradability	Inherently biodegradable. Photolysis in the air.
Oxirane, 2-Methyl-, Polymer with Oxirane,	Monobutyl Ether (9038-95-3)
Persistence and degradability	Not readily biodegradable in water.
Trade Secret Inhibitor Package (Trade Se	
Persistence and degradability	Not established.
<u> </u>	
Polyalkylene Glycol Monobutyl Ether (900	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
JOHNSEN'S PREMIUM DOT 3 BRAKE FLU	JID 450 DEG 32 FL.OZ.
Bioaccumulative potential	Not established.
Triethylene Glycol Monomethyl Ether (112	2-35-6)
Log Pow	-1.13
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
Triethyleneglycol Monoethyl Ether (112-50	0-5)
Bioaccumulative potential	Not bioaccumulative.
Triethylene Glycol Monobutyl Ether (143-2	22-6)
Log Pow	0.51 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
3,6,9,12-Tetraoxahexadecane-1-ol (1559-3	
Log Pow	-0.26 (Calculated)
Bioaccumulative potential	Bioaccumulation: not applicable.
<u>'</u>	
Polyethylene Glycol 200-600 (25322-68-3) Log Pow	-1.2
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
<u> </u>	Biodocumulation. Not applicable. Not established.
2-(2-Butoxyethoxy) Ethanol (112-34-5)	0.40 (DOF)
BCF fish 1	0.46 (BCF)
Log Pow	0.56 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Diethylene Glycol (111-46-6)	
BCF fish 1	100 (BCF; Other; 3 days; Leuciscus melanotus; Static system; Fresh water; Experimental value)
Log Pow	-1.98 (Calculated; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Diethylene Glycol Monomethyl Ether (111	-77-3)
Log Pow	-1.140.68
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21/04/2017 EN (English) 7/12

Safety Data Sheet

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

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Diethylene Glycol Monomethyl Ether (111-77-3)		
Bioaccumulative potential	Bioaccumulation: not applicable.	
Diethyleneglycolmonoethyl Ether (111-90-0)		
Log Pow	-1.190.08	
Bioaccumulative potential	Bioaccumulation: not applicable.	
Tetraethylene Glycol Monomethyl Ether (2378	3-42-8)	
Log Pow	-0.6	
Bioaccumulative potential	Bioaccumulation: not applicable.	
Oxirane, 2-Methyl-, Polymer with Oxirane, Mor	nobutyl Ether (9038-95-3)	
Bioaccumulative potential	Not bioaccumulative.	
Trade Secret Inhibitor Package (Trade Secret		
Bioaccumulative potential	Not established.	
Polyalkylene Glycol Monobutyl Ether (9004-7	7-7)	
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
Triethylene Glycol Monomethyl Ether (112-35-	6)	
Surface tension	0.0314 N/m	
2-(2-Butoxyethoxy) Ethanol (112-34-5)		
Surface tension	0.034 N/m (25 °C)	
Diethylene Glycol (111-46-6)		
Surface tension	0.0485 N/m	
Log Koc	Koc,SRC PCKOCWIN v1.66; 1; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0; Calculated value	
Diethylene Glycol Monomethyl Ether (111-77-3)		
Surface tension	0.035 N/m (25 °C)	
Diethyleneglycolmonoethyl Ether (111-90-0)		
Surface tension	0.032 N/m (25 °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. Dispose of

contents/container to appropriate waste disposal facility, in accordance with local, regional,

national, international 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

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

21/04/2017 EN (English) 8/12

Safety Data Sheet

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

SECTION 15: Regulatory information			
15.1. US Federal regulations			
JOHNSEN'S PREMIUM DOT 3 BRAKE FLUID 4	50 DEG 32 FL.OZ.		
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard		
Triethylene Glycol Monomethyl Ether (112-35-6)			
Subject to reporting requirements of United States SARA Section 313			
Triethyleneglycol Monoethyl Ether (112-50-5)			
Subject to reporting requirements of United States SARA Section 313			
Triethylene Glycol Monobutyl Ether (143-22-6)			
Subject to reporting requirements of United States SARA Section 313			
2-(2-Butoxyethoxy) Ethanol (112-34-5)			
Subject to reporting requirements of United States SARA Section 313			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Reactive hazard		

15.2. International regulations

CANADA

Triethyleneglycol Monoethyl Ether (112-50-5)		
Triethylene Glycol Monobutyl Ether (143-22-6)		
2-(2-Butoxyethoxy) Ethanol (112-34-5)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

EU-Regulations

Triethyleneglycol Monoethyl Ether (112-50-5)	
Triethylene Glycol Monobutyl Ether (143-22-6)	
2-(2-Butoxyethoxy) Ethanol (112-34-5)	

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

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

Xi; R41

Full text of R-phrases: see section 16

15.2.2. National regulations

Triethyleneglyco	Monoethyl Ether	(112-50-5)
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Triethylene Glycol Monobutyl Ether (143-22-6)

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

15.3. US State regulations

JOHNSEN'S PREMIUM DOT 3 BRAKE FLUID 450 DEG 32 FL.OZ.		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

Triethylene Glycol Monomethyl Ether (112-35-6)				
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	Non-significant risk level (NSRL)
No	No	No	No	

21/04/2017 EN (English) 9/12

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

3 3	Vol. 77, No. 367 Monday, March 20	, 2012 / Italioo and Itagalationio		
Triethyleneglycol Monoe	ethyl Ether (112-50-5)			
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
		110	110	
Triethylene Glycol Mono		Tuo 0 17 :	110 0 111	
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
2 C 0 42 Tetra evaluavada	2000 4 ol (4550 24 9)			
3,6,9,12-Tetraoxahexade U.S California -	U.S California -	U.S California -	U.S California -	Non significant risk lovel
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	Non-significant risk level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NSKL)
Carcinogens List	Developmental Toxicity	Female	Male	
		remale	iviale	
No	No	No	No	
Polyethylene Glycol 200	-600 (25322-68-3)			
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
2 (2 Butayyathayy) Etha	nol (112 24 5)			
2-(2-Butoxyethoxy) Etha U.S California -	U.S California -	II.C. California	II C. California	Non significant vials lavel
	Proposition 65 -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -		Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
Diethylene Glycol (111-4				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
Diethylene Glycol Mono	methyl Fther (111-77-3)	<u>.</u>	<u> </u>	<u> </u>
U.S California -		U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NONE)
Garamagama <u>=</u>	20 voiopinioniai voinioniy	Female	Male	
No	No	No	No	
No		140	INU	
Diethyleneglycolmonoet				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
Tetraethylene Glycol Mo	anomethyl Ether (23783-42-8)	•		
U.S California -	, ,	U.S California -	U.S California -	Non-significant risk level
U.S California -	U.S California -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	Non-significant risk level (NSRL)
U.S California - Proposition 65 -	U.S California - Proposition 65 -	Proposition 65 -	Proposition 65 -	Non-significant risk level (NSRL)
U.S California -	U.S California -			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 -	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity - Male	
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity -	
U.S California - Proposition 65 - Carcinogens List No Oxirane, 2-Methyl-, Poly	U.S California - Proposition 65 - Developmental Toxicity No mer with Oxirane, Monobutyl E	Proposition 65 - Reproductive Toxicity - Female No Sther (9038-95-3)	Proposition 65 - Reproductive Toxicity - Male No	(NSRL)
U.S California - Proposition 65 - Carcinogens List No Oxirane, 2-Methyl-, Poly U.S California -	U.S California - Proposition 65 - Developmental Toxicity No mer with Oxirane, Monobutyl E U.S California -	Proposition 65 - Reproductive Toxicity - Female No Ether (9038-95-3) U.S California -	Proposition 65 - Reproductive Toxicity - Male No U.S California -	(NSRL) Non-significant risk level
U.S California - Proposition 65 - Carcinogens List No Oxirane, 2-Methyl-, Poly U.S California - Proposition 65 -	U.S California - Proposition 65 - Developmental Toxicity No mer with Oxirane, Monobutyl E U.S California - Proposition 65 -	Proposition 65 - Reproductive Toxicity - Female No Ether (9038-95-3) U.S California - Proposition 65 -	Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 -	(NSRL)
U.S California - Proposition 65 - Carcinogens List No Oxirane, 2-Methyl-, Poly U.S California -	U.S California - Proposition 65 - Developmental Toxicity No mer with Oxirane, Monobutyl E U.S California -	Proposition 65 - Reproductive Toxicity - Female No Ether (9038-95-3) U.S California - Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 - Reproductive Toxicity -	(NSRL) Non-significant risk level
U.S California - Proposition 65 - Carcinogens List No Oxirane, 2-Methyl-, Poly U.S California - Proposition 65 -	U.S California - Proposition 65 - Developmental Toxicity No mer with Oxirane, Monobutyl E U.S California - Proposition 65 -	Proposition 65 - Reproductive Toxicity - Female No Ether (9038-95-3) U.S California - Proposition 65 -	Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 -	(NSRL) Non-significant risk level
U.S California - Proposition 65 - Carcinogens List No Oxirane, 2-Methyl-, Poly U.S California - Proposition 65 -	U.S California - Proposition 65 - Developmental Toxicity No mer with Oxirane, Monobutyl E U.S California - Proposition 65 -	Proposition 65 - Reproductive Toxicity - Female No Ether (9038-95-3) U.S California - Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 - Reproductive Toxicity -	(NSRL) Non-significant risk level

21/04/2017 EN (English) 10/12

Safety Data Sheet

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

Trade Secret Inhibitor F	Package (Trade Secret)			
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	Non-significant risk level (NSRL)
No	No	No	No	
Polyalkylene Glycol Monobutyl Ether (9004-77-7)				
Polyalkylene Glycol Mo	pnobutyl Ether (9004-77-7)			
Polyalkylene Glycol Mo 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	Non-significant risk level (NSRL)

Triethylene Glycol Monomethyl Ether (112-35-6)

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. New Jersey Right to Know Hazardous Substance List

Triethyleneglycol Monoethyl Ether (112-50-5)

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. New Jersey Right to Know Hazardous Substance List

Triethylene Glycol Monobutyl Ether (143-22-6)

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. New Jersey Right to Know Hazardous Substance List

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

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. New Jersey Right to Know Hazardous Substance List

SECTION 16: Other information

Other information : None.

Full text of H-statements:

H227	Combustible liquid
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated
	exposure

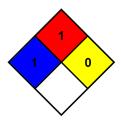
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

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

21/04/2017 EN (English) 11/12

Safety Data Sheet

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

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.

21/04/2017 EN (English) 12/12