

**Safety Data Sheet** according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 04/04/2014 Revision date: 04/04/2014 Version: 1.0

SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	: PENRAY TOTAL DIESEL FUEL SYSTEM CLEANER
Product code	: 105055
1.2. Relevant identified uses of the subst	tance or mixture and uses advised against
Use of the substance/mixture	: Asphaltene Dispersant.
1.3. Details of the supplier of the safety of	data sheet
The Penray Companies, Inc. 440 Denniston Ct. 60090 Wheeling, IL T (800) 373-6729 rotto@penray.com	
1.4. Emergency telephone number	
Emergency number	: (800) 373-6729 CHEMTREC (800) 424-9300 CHEMTREC International +1 (703) 527-3887 24 hr
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	ixture
GHS-US classification Flammable Liquid 2 Acute toxicity 4 (Inhalation) Skin irritation 2 Reproductive toxicity 2 (developmental) Specific target organ toxicity - Single exposure 3 Specific target organ toxicity - Repeated exposure Aspiration hazard 1	e 2
2.2. Label elements	
GHS-US labelling Hazard pictograms (GHS-US)	
	GHS02 GHS07 GHS08
Signal word (GHS-US)	GHS02 GHS07 GHS08 : Danger
Signal word (GHS-US) Hazard statements (GHS-US)	
Hazard statements (GHS-US) Precautionary statements (GHS-US)	<ul> <li>Danger</li> <li>Highly flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs</li> </ul>
Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards	<ul> <li>Danger</li> <li>Highly flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.</li> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe gas/mist/vapors/spray. If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional,</li> </ul>
Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards No additional information available	<ul> <li>Danger</li> <li>Highly flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.</li> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe gas/mist/vapors/spray. If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional,</li> </ul>
Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards	<ul> <li>Danger</li> <li>Highly flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.</li> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe gas/mist/vapors/spray. If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>

#### **SECTION 3: Composition/information on ingredients**

#### Substance 3.1.

Not applicable

EN (English)

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Name		Product identifier	%	GHS-US classification
Toluene		(CAS No) 108-88-3	60 - 100	Flam. Liq. 2 Acute Tox. 4 (Oral) Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1
Xylenes (o-, m-, p- isomers)		(CAS No) 1330-20-7	7 - 13	Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2
Amines, polyethylenepoly-, reaction products wit anhydride polyisobutenyl derivatives	th succinic	(CAS No) 84605-20-9	3 - 7	Flam. Liq. 4 Eye Irrit. 2A
Solvent naphtha, petroleum, heavy aromatic		(CAS No) 64742-94-5	1 - 5	Flam. Liq. 3 Asp. Tox. 1
2-Butoxyethanol		(CAS No) 111-76-2	1 - 5	Flam. Liq. 3 Acute Tox. 4 (Oral, Dermal, Inhalation) Skin Irrit. 2 Eye Irrit. 2A
2-Ethylhexyl nitrate		(CAS No) 27247-96-7	1 - 5	Flam. Liq. 4 Acute Tox. 4 (Inhalation)
Kerosene, petroleum, hydrodesulfurized		(CAS No) 64742-81-0	1 - 5	Asp. Tox. 1
Kerosene, petroleum, hydrodesulfurized The exact percentage (concentration) of compos	sition has been v	( )	-	
	sition has been v	( )	-	
The exact percentage (concentration) of compos		( )	-	
The exact percentage (concentration) of composise SECTION 4: First aid measures	es : If inh	withheld as a trade secret in accord	dance with paragraph (	i) of §1910.1200. ficial respiration. If breathing is difficult,
The exact percentage (concentration) of composise CTION 4: First aid measures I.1. Description of first aid measure	es : If inh give : In ca	aled, remove to fresh air. If no oxygen. Get medical advice/a se of contact, immediately flu	dance with paragraph ( bt breathing, give arti ttention if you feel ur sh skin with plenty of	i) of §1910.1200. ficial respiration. If breathing is difficult,
The exact percentage (concentration) of compose SECTION 4: First aid measures 1.1. Description of first aid measures First-aid measures after inhalation	es : If inh give : In ca and s : In ca	aled, remove to fresh air. If no oxygen. Get medical advice/a se of contact, immediately flus shoes. Wash clothing before r	dance with paragraph ( bt breathing, give arti ttention if you feel ur sh skin with plenty of euse. Call a physicia sh eyes with plenty of	ficial respiration. If breathing is difficult, nwell. water. Remove contaminated clothing in if irritation develops and persists.
The exact percentage (concentration) of compose SECTION 4: First aid measures 1.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact	es : If inh give : In ca and s : In ca do, re : If swa	aled, remove to fresh air. If no oxygen. Get medical advice/a se of contact, immediately flus shoes. Wash clothing before r se of contact, immediately flus emove contact lenses, if worn allowed, do NOT induce vomi	dance with paragraph ( bt breathing, give arti ttention if you feel ur sh skin with plenty of euse. Call a physicia sh eyes with plenty o . If irritation persists, ting unless directed	ficial respiration. If breathing is difficult, nwell. water. Remove contaminated clothing in if irritation develops and persists.
The exact percentage (concentration) of compose SECTION 4: First aid measures 1.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	es : If inh give : In ca and s : In ca do, re : If swa anyth	aled, remove to fresh air. If no oxygen. Get medical advice/a se of contact, immediately flu- shoes. Wash clothing before r se of contact, immediately flu- emove contact lenses, if worn allowed, do NOT induce vomi ning by mouth to an unconscio	dance with paragraph ( bt breathing, give arti ttention if you feel ur sh skin with plenty of euse. Call a physicia sh eyes with plenty o . If irritation persists, ting unless directed	ficial respiration. If breathing is difficult, inwell. i water. Remove contaminated clothing in if irritation develops and persists. of water for at least 15 minutes. If easy to get medical attention.
The exact percentage (concentration) of compose SECTION 4: First aid measures I.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	es : If inh give : In ca and s : In ca do, re : If swa anyth effects, both : Harm	aled, remove to fresh air. If no oxygen. Get medical advice/a se of contact, immediately flus shoes. Wash clothing before r se of contact, immediately flus emove contact lenses, if worn allowed, do NOT induce vomi ning by mouth to an unconscio acute and delayed	dance with paragraph ( bt breathing, give arti- ttention if you feel ur sh skin with plenty of euse. Call a physicia sh eyes with plenty of . If irritation persists, ting unless directed to ous person. Get imm vsiness, dizziness an	ficial respiration. If breathing is difficult, inwell. i water. Remove contaminated clothing in if irritation develops and persists. of water for at least 15 minutes. If easy to get medical attention.
The exact percentage (concentration) of compose SECTION 4: First aid measures I.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion I.2. Most important symptoms and	es : If inh give : In ca and s : In ca do, re : If swa anyth effects, both : Harrr May	aled, remove to fresh air. If no oxygen. Get medical advice/a se of contact, immediately flu- shoes. Wash clothing before r se of contact, immediately flu- emove contact lenses, if worn allowed, do NOT induce vomi ning by mouth to an unconscio acute and delayed nful if inhaled. May cause drov cause respiratory tract irritation ses skin irritation. Symptoms r	dance with paragraph ( bt breathing, give arti- ttention if you feel ur sh skin with plenty of euse. Call a physicia sh eyes with plenty of . If irritation persists, ting unless directed fous pus person. Get imm vsiness, dizziness an n.	ficial respiration. If breathing is difficult, well. water. Remove contaminated clothing in if irritation develops and persists. of water for at least 15 minutes. If easy to get medical attention. to do so by medical personnel. Never give ediate medical advice/attention.
The exact percentage (concentration) of compose SECTION 4: First aid measures I.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion I.2. Most important symptoms and Symptoms/injuries after inhalation	es : If inh give : In ca and s : In ca do, re : If swa anyth effects, both : Harrr May : Caus the s : May	aled, remove to fresh air. If no oxygen. Get medical advice/a se of contact, immediately flu- shoes. Wash clothing before r se of contact, immediately flu- emove contact lenses, if worn allowed, do NOT induce vomi ning by mouth to an unconscio acute and delayed nful if inhaled. May cause drov cause respiratory tract irritation ses skin irritation. Symptoms r kin.	dance with paragraph ( bt breathing, give arti- ttention if you feel ur sh skin with plenty of euse. Call a physicia sh eyes with plenty of . If irritation persists, ting unless directed f bus person. Get imm vsiness, dizziness ar n. nay include redness, us may include disco	ficial respiration. If breathing is difficult, inwell. i water. Remove contaminated clothing an if irritation develops and persists. of water for at least 15 minutes. If easy to get medical attention. to do so by medical personnel. Never give ediate medical advice/attention.

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

5.1.       Extinguishing media         Suitable extinguishing media       : Powder, water spray, foam, carbon dioxide.         Unsuitable extinguishing media       : Do not use a heavy water stream.         5.2.       Special hazards arising from the substance or mixture         Fire hazard       : Products of combustion may include, and are not limited to: oxides of carbon, aldehydes and hydrocarbons.         5.3.       Advice for firefighters         Protection during firefighting       : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA) Vapors may be beavier than air and may travel along the ground to a distribution.	SECTION 5: Firefighting measures	
Unsuitable extinguishing media       : Do not use a heavy water stream.         5.2.       Special hazards arising from the substance or mixture         Fire hazard       : Products of combustion may include, and are not limited to: oxides of carbon, aldehydes and hydrocarbons.         5.3.       Advice for firefighters         Protection during firefighting       : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory	5.1. Extinguishing media	
5.2.       Special hazards arising from the substance or mixture         Fire hazard       : Products of combustion may include, and are not limited to: oxides of carbon, aldehydes and hydrocarbons.         5.3.       Advice for firefighters         Protection during firefighting       : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory	Suitable extinguishing media	: Powder, water spray, foam, carbon dioxide.
Fire hazard       : Products of combustion may include, and are not limited to: oxides of carbon, aldehydes and hydrocarbons.         5.3.       Advice for firefighters         Protection during firefighting       : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory	Unsuitable extinguishing media	: Do not use a heavy water stream.
hydrocarbons. 5.3. Advice for firefighters Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory	5.2. Special hazards arising from the sub	ostance or mixture
Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory	Fire hazard	
	5.3. Advice for firefighters	
ignition source and flash back. Use water spray to keep fire-exposed containers cool.	Protection during firefighting	protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant

SECTION 6: Accidental release measures		
6.1. Personal precautions, prot	ective equipment and emergency procedures	
General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.	



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according to the Hazard Communicati		·		
6.2. Methods and materia		Dike and contain spill. Contain and/or	absorb spill with inert material (e.g. sand, vermiculite), ther ush to sewer or allow to enter waterways. Use appropriate	
Methods for cleaning up	:	: Scoop up material and place in a disposal container. Provide ventilation.		
6.3. Reference to other s	ections			
See section 8 for further information	ation on protective c	lothing and equipment and section 13 f	for advice on waste disposal.	
<b>SECTION 7: Handling a</b>	nd storage			
7.1. Precautions for safe	handling			
Precautions for safe handling	:	breathe gas/mist/vapors/spray. Do no	No smoking. Avoid contact with skin and eyes. Do not t swallow. Handle and open container with care. Use only ot eat, drink or smoke. Use only outdoors or in a well-	
Hygiene measures	:	Launder contaminated clothing before	e reuse. Wash hands before eating, drinking, or smoking.	
7.2. Conditions for safe s	storage, including	any incompatibilities		
Storage conditions	:	Keep out of the reach of children. Kee Store locked up. Keep cool. Keep awa	ep container tightly closed and in a well-ventilated place. ay from heat, sparks, and flame.	
7.3. Specific end use(s)				
Not available.				
<b>SECTION 8: Exposure c</b>	ontrols/person	al protection		
8.1. Control parameters				
Toluene (108-88-3)				
USA ACGIH	ACGIH TWA (ppn	n)	20 ppm	
USA OSHA	OSHA PEL (TWA	) (ppm)	200 ppm	
USA OSHA	OSHA PEL (STEL	_) (ppm)	150 ppm	
USA OSHA	OSHA PEL (Ceilir	ng) (ppm)	300 ppm	
Vulence (o m n icomere)	(4220.20.7)			
Xylenes (o-, m-, p- isomers) USA ACGIH	ACGIH TWA (ppn	) )	100 ppm	
USA ACGIH	ACGIH STEL (ppr		150 ppm	
USA OSHA	OSHA PEL (TWA	,	435 mg/m <sup>3</sup>	
USA OSHA	OSHA PEL (TWA		100 ppm	
034 03114	OSHA FEE (TWA	) (ppm)		
2-Butoxyethanol (111-76-2)				
USA ACGIH	ACGIH TWA (ppn	1)	20 ppm	
USA OSHA	OSHA PEL (TWA	) (mg/m³)	240 mg/m <sup>3</sup>	
USA OSHA	OSHA PEL (TWA	) (ppm)	50 ppm	
Kerosene, petroleum, hydro	desulfurized (6474	2-81-0)		
USA ACGIH	ACGIH TWA (mg/	•	200 mg/m <sup>3</sup>	
8.2. Exposure controls	1			
Appropriate engineering controls	s :	Use ventilation adequate to keep exp	osures (airborne levels of dust, fume, vapor, etc.) below	
		recommended exposure limits.		
Personal protective equipment		Avoid all unnecessary exposure.		
Hand protection	:	Wear chemically resistant protective g		
Eye protection	:	Safety glasses or goggles are recomm	nended when using product.	
Skin and body protection		Wear suitable protective clothing.	nmandad in paarly vantilated areas or when parmissible	
Respiratory protection		exposure limits may be exceeded. Re	nmended in poorly ventilated areas or when permissible spirator selection must be based on known or anticipated oduct and the safe working limits of the selected respirator.	
Environmental exposure control	s :	Maintain levels below Community env	ironmental protection thresholds.	
Other information	:		rial is handled, processed or stored. Wash hands carefully rding to established industrial hygiene and safety practices.	



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

according to the Hazard Communication Standard (CF		
SECTION 9: Physical and chemical		
9.1. Information on basic physical and		
Physical state	: Liquid	
Colour	: Amber.	
Odour	: Petroleum odor.	
Odour threshold	: No data available.	
рН	: No data available.	
Relative evaporation rate (butylacetate=1)	: No data available.	
Melting point	: No data available.	
Freezing point	: No data available.	
Boiling point	: ~ 111 °C (~ 232 °F) (Toluene)	
Flash point	: ~ 4.4 °C (~ 40 °F) (Toluene)	
Self ignition temperature	: No data available.	
Decomposition temperature	: No data available.	
Flammability (solid, gas)	: Flammable.	
Vapour pressure	: No data available.	
Relative vapour density at 20 °C	: No data available.	
Relative density	: No data available.	
Solubility	: No data available.	
Log Pow	: No data available.	
Log Kow	: No data available.	
Viscosity, kinematic	: No data available.	
Viscosity, dynamic	: No data available.	
Explosive properties	: No data available.	
Oxidising properties	: No data available.	
Explosive limits	: No data available.	
9.2. Other information		
No additional information available		
<b>SECTION 10: Stability and reactivit</b>	у	
10.1. Reactivity		
No dangerous reaction known under condition	s of normal use.	
10.2. Chemical stability		
Stable under normal storage conditions. May feed to the storage conditions of the storage conditions of the storage conditions of the storage conditions of the storage conditions. May feed to the storage conditions of the storage conditions of the storage conditions of the storage conditions of the storage conditions. May feed to the storage conditions of the storage conditions of the storage conditions of the storage conditions of the storage conditions. May feed to the storage conditions of the storage co		
No dangerous reaction known under conditions	s of normal use.	
10.4. Conditions to avoid		
Heat. Incompatible materials. Open flame.		
10.5. Incompatible materials		
Acids. Bases. Oxidizers.		
10.6. Hazardous decomposition produc		
May include, and are not limited to: oxides of carbon, aldehydes and hydrocarbons.		
<b>SECTION 11: Toxicological informa</b>	ation	
11.1. Information on toxicological effect	ts	
<b>.</b>		
Acute toxicity	: Harmful if inhaled.	
Acute toxicity		
Acute toxicity 105055	: Harmful if inhaled.	
Acute toxicity          105055         LD50 oral rat	: Harmful if inhaled.	
Acute toxicity 105055 LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l)	<ul> <li>Harmful if inhaled.</li> <li>&gt; 2000 mg/kg</li> <li>&gt; 2000 mg/kg</li> </ul>	
Acute toxicity           105055           LD50 oral rat           LD50 dermal rabbit	<ul> <li>Harmful if inhaled.</li> <li>&gt; 2000 mg/kg</li> <li>&gt; 2000 mg/kg</li> </ul>	
Acute toxicity 105055 LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) Toluene (108-88-3)	: Harmful if inhaled. > 2000 mg/kg > 2000 mg/kg ~ 19.7 mg/l/4h	
Acute toxicity          105055         LD50 oral rat         LD50 dermal rabbit         LC50 inhalation rat (mg/l)         Toluene (108-88-3)         LD50 oral rat	: Harmful if inhaled. > 2000 mg/kg > 2000 mg/kg ~ 19.7 mg/l/4h → 5000 mg/kg	
Acute toxicity  105055  LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l)  Toluene (108-88-3) LD50 oral rat LD50 dermal rat	<ul> <li>Harmful if inhaled.</li> <li>&gt; 2000 mg/kg</li> <li>&gt; 2000 mg/kg</li> <li>~ 19.7 mg/l/4h</li> <li>&gt; 5000 mg/kg</li> <li>12124 mg/kg</li> </ul>	

 Xylenes (o-, m-, p- isomers) (1330-20-7)

 LD50 oral rat

 04/04/2014

4300 mg/kg EN (English)



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5	,
Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 dermal rabbit	> 1700 mg/kg
LC50 inhalation rat (ppm)	5000 ppm/4h
LC50 inhalation rat (mg/l)	47635 mg/l/4h
Solvent naphtha, petroleum, heavy aromatic	(64742-94-5)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000mg/kg
2-Butoxyethanol (111-76-2)	
LD50 oral rat	470 mg/kg
LC50 inhalation rat (ppm)	450 ppm/4h
2-Ethylhexyl nitrate (27247-96-7)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 4820 mg/kg
LC50 inhalation rat (mg/l)	> 14 mg/l/4h
Kerosene, petroleum, hydrodesulfurized (647	42-81-0)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toluene (108-88-3) IARC group	3
	5
Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC group	3
2-Butoxyethanol (111-76-2)	
IARC group	3
National Toxicity Program (NTP) Status	1
Reproductive toxicity	: Suspected of damaging the unborn child.
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

SECTION	ON 12: Ecological information		
12.1.	Toxicity		
Ecology	- general :	May cause long-term adverse effects in the aquatic environment.	
12.2.	Persistence and degradability		
105055			
Persiste	ence and degradability	Not established.	
12.3.	12.3. Bioaccumulative potential		
105055			
Bioaccu	umulative potential	Not established.	
12.4.	Mobility in soil		

No additional information available

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12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste disposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.
Additional information	: Handle empty containers with care because residual vapours are flammable.
SECTION 14: Transport information	
In accordance with DOT	
14.1. UN number	
UN-No.	: UN1993
14.2. UN proper shipping name	
Proper Shipping Name	: Flammable liquids, n.o.s. (Toluene, Xylene)
Department of Transportation Hazard Classes	: 3
Hazard labels	
Packing group (DOT)	: 11
14.3. Additional information	
Other information	: No supplementary information available.
	: Do not handle until all safety precautions have been read and understood.

15.1. US Federal regulations		
Toluene (108-88-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)		
SARA Section 313 - Emission Rep	porting 1.0 °	%
Xylenes (o-, m-, p- isomers) (133	30-20-7)	
Listed on the United States TSCA Listed on SARA Section 313 (Spec		
SARA Section 313 - Emission Rep	porting 1.0 °	%
Amines, polyethylenepoly-, read	ction products with	succinic anhydride polyisobutenyl derivatives (84605-20-9)
Listed on the United States TSCA	(Toxic Substances C	iontrol Act) inventory
Solvent naphtha, petroleum, hea	avy aromatic (64742	-94-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
2-Butoxyethanol (111-76-2)		
Listed on the United States TSCA	(Toxic Substances C	Control Act) inventory
2-Ethylhexyl nitrate (27247-96-7)	)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Kerosene, petroleum, hydrodesulfurized (64742-81-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
15.2. US State regulations		
105055		
State or local regulations		This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
SOURCE AGENCY CARCINOGEN	<b>CLASSIFICATIONS</b>	):
IARC Intern	national Agency for	Research on Cancer.

IARC	International Agency for Research on Cancer.
	1 - Carcinogenic to humans;
	2A - Probably carcinogenic to humans;
	2B - Possibly carcinogenic to humans;
	3 - Not classifiable;
	4 - Probably not carcinogenic to humans.

EN (English)



#### Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

IARC	International Agency for Research on Cancer.
NTP	National Toxicology Program.
	1 - Evidence of Carcinogenicity;
	2 - Known Human Carcinogens;
	3 - Reasonably anticipated to be Human Carcinogen;
	4 - Substances delisted from report on Carcinogens;
	5 - Twelfth Report - Items under consideration.

SECTION 16: Other information		
Indication of changes	:	None.
Date of issue	:	04/04/2014
Other information	:	None.
NFPA health hazard NFPA fire hazard NFPA reactivity	: :	2 3 0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

