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SAFETY DATA SHEET

1. Identification

Material name: POLYroof® LV

Material: 361590 805

Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S. Roofing 3735 Green Road Beachwood OH 44122 US

Contact person:EH&S DepartmentTelephone:216-292-5000

Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

Category 4

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable solid Category 2

Health Hazards

Acute toxicity (Inhalation - dust and

mist)

Serious Eye Damage/Eye Irritation Category 2B
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1A
Toxic to reproduction Category 1B

Unknown toxicity - Health

Acute toxicity, oral 0.69 %
Acute toxicity, dermal 1.37 %
Acute toxicity, inhalation, vapor 99.66 %
Acute toxicity, inhalation, dust or mist 94.5 %

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Unknown toxicity - Environment

Acute hazards to the aquatic 71.65 %

environment

Chronic hazards to the aquatic 100 %

environment

Label Elements

Hazard Symbol:



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Signal Word: Danger

Hazard Statement: Flammable solid.

Harmful if inhaled. Causes eye irritation. May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Toxic to aquatic life.

Precautionary Statement: Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Wear

protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release

to the environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/attention. Call a POISON

CENTER/doctor if you feel unwell. In case of fire: Use ... to extinguish.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Asphalt	8052-42-4	30 - 60%
Xylene	1330-20-7	15 - 40%
Amorphous silica	7631-86-9	5 - 10%
Ethylbenzene	100-41-4	5 - 10%
Coal tar pitch	65996-93-2	3 - 7%



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Petroleum distillates	64741-81-7	1 - 5%
Residues (petroleum), thermal cracked	64741-80-6	1 - 5%
Polyethylene	9002-88-4	0.5 - 1.5%
Carbon Black	1333-86-4	0.5 - 1.5%
Hydrodesulfurized middle distillate	64742-80-9	0.1 - 1%
Toluene	108-88-3	0.1 - 1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/attention.

Eye contact: Any material that contacts the eye should be washed out immediately with

water. If easy to do, remove contact lenses. If eye irritation persists: Get

medical advice/attention.

Most important symptoms/effects, acute and delayed

Symptoms: Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Water may be

ineffective in fighting the fire. Fight fire from a protected location.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.



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Special protective equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Methods and material for containment and cleaning up:

Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

Environmental Precautions:

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Ground and bond container and receiving equipment. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Conditions for safe storage, including any

incompatibilities:

Store locked up. Store in a cool place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values		Source
Asphalt - Inhalable fraction as benzene solubles	TWA	C).5 mg/m3	US. ACGIH Threshold Limit Values (2011)
Xylene	STEL	150 ppm	655	US. NIOSH: Pocket Guide to
			mg/m3	Chemical Hazards (2010)
	REL	100 ppm	435	US. NIOSH: Pocket Guide to
			mg/m3	Chemical Hazards (2010)
	STEL	150 ppm	655	US. NIOSH: Pocket Guide to
	0.22		mg/m3	Chemical Hazards (2010)
	REL	100 ppm	435	US. NIOSH: Pocket Guide to
			mg/m3	Chemical Hazards (2010)
	STEL	150 ppm	655	US. NIOSH: Pocket Guide to
	<u>-</u>		mg/m3	Chemical Hazards (2010)
	REL	100 ppm	435	US. NIOSH: Pocket Guide to



mg/m3 Chemical Hazards (2010) 150 ppm 655 US. OSHA Table Z-1-A (29 CFR STEL mg/m3 1910.1000) (1989) 100 ppm US. OSHA Table Z-1-A (29 CFR 435 TWA mg/m3 1910.1000) (1989) 100 ppm 435 US. Tennessee. OELs. Occupational TWA mg/m3 Exposure Limits, Table Z1A (06 2008) US. Tennessee. OELs. Occupational 150 ppm 655 STEL mg/m3 Exposure Limits, Table Z1A (06 2008) 350 µg/m3 US. Texas. Effects Screening Levels ST ESL (Texas Commission on Environmental Quality) (07 2011) 80 ppb US. Texas. Effects Screening Levels ST ESL (Texas Commission on Environmental Quality) (07 2011) 42 ppb US. Texas. Effects Screening Levels AN ESL (Texas Commission on Environmental Quality) (07 2011) 180 µg/m3 US. Texas. Effects Screening Levels AN ESL (Texas Commission on Environmental Quality) (07 2011) 150 ppm 655 US. California Code of Regulations, STEL Title 8, Section 5155. Airborne mg/m3 Contaminants (08 2010) 300 ppm US. California Code of Regulations, Ceiling Title 8, Section 5155. Airborne Contaminants (08 2010) US. California Code of Regulations, 100 ppm 435 TWA mg/m3 Title 8. Section 5155. Airborne PEL Contaminants (08 2010) 100 ppm US. ACGIH Threshold Limit Values TWA (2011)150 ppm US. ACGIH Threshold Limit Values STEL (2011)100 ppm 435 US. OSHA Table Z-1 Limits for Air PEL mg/m3 Contaminants (29 CFR 1910.1000) $(02\ 2006)$ TWA 20 millions US. OSHA Table Z-3 (29 CFR Amorphous silica of particles 1910.1000) (2000) per cubic foot of air 0.8 mg/m3 US. OSHA Table Z-3 (29 CFR **TWA** 1910.1000) (2000) Ethylbenzene TWA 20 ppm US. ACGIH Threshold Limit Values 100 ppm 435 US. OSHA Table Z-1 Limits for Air PEL mg/m3 Contaminants (29 CFR 1910.1000) $(02\ 2006)$ US. ACGIH Threshold Limit Values Coal tar pitch - Aerosol. **TWA** 0.2 mg/m3 - as benzene solubles (2011)Coal tar pitch PEL 0.2 mg/m3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) $(02\ 2006)$

10 mg/m3

(032015)

US. ACGIH Threshold Limit Values

Polyethylene -

Inhalable particles.

TWA



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Polyethylene - Respirable particles.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
Polyethylene - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Polyethylene - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Polyethylene - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (2011)
Carbon Black	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Hydrodesulfurized middle distillate - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Toluene	TWA	20 ppm	US. ACGIH Threshold Limit Values (2011)
	TWA	200 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	Ceiling	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	500 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)

Chemical name	type	Exposure Limit	Values	Source
Asphalt - Aerosol, inhalable as benzene solubles	TWA	0.	5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Asphalt - Inhalable fraction as benzene solubles	TWAEV	0.	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Asphalt - Fume.	TWA		5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Xylene	TWA	100 ppm	434 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
	STEL	150 ppm	651	Canada. Alberta OELs (Occupational

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			mg/m3	Health & Safety Code, Schedule 1, Table 2) (07 2009)
Xylene	TWA	100 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	150 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Xylene	TWAEV	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	150 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Xylene	TWA	100 ppm	434 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	150 ppm	651 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica - Total	TWA		4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA		1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV		10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA		6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Ethylbenzene	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Ethylbenzene	STEL	125 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	TWAEV	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)





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Ethylbenzene	TWA	100 ppm	434 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	125 ppm	543 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Coal tar pitch - Aerosol as benzene solubles	TWA		0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Coal tar pitch - Aerosol as benzene solubles	TWAEV		0.2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Coal tar pitch - as benzene solubles	TWA		0.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Carbon Black - Inhalable	TWA		3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black	TWAEV		3.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon Black	TWA		3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Hydrodesulfurized middle distillate - Mist.	TWA		0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
	TWA		1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Toluene	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Toluene	TWAEV	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Toluene	TWA	50 ppm	188 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)



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Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Xylene (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEI (03 2013)
Ethylbenzene (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEI (02 2014)
Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEI (03 2013)
Toluene (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEI (03 2013)
Toluene (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEI (03 2013)

Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required.

Observe good industrial hygiene practices. Observe occupational exposure

limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information: Use explosion-proof ventilation equipment. Good general ventilation

(typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain

special instructions before use.

9. Physical and chemical properties

Appearance

Physical state: solid
Form: Paste



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Color: Black
Odor: Slight odor

Odor threshold:

pH:

No data available.

Slower than Ether

Flammability (solid, gas):

Flammable solid.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

Vapor pressure:

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 0.98

Solubility(ies)

Solubility in water:
Solubility (other):
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
No data available.
Viscosity:
No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Heat, sparks, flames.

Incompatible Materials: Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and

chromates).

Hazardous Decomposition Thermal decomposition or combustion may liberate carbon oxides and

Products: other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.



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Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

Skin Contact: May be harmful in contact with skin. Causes mild skin irritation.

Eye contact: Causes eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 11,214.96 mg/kg

Dermal

Product: ATEmix: 3,740.89 mg/kg

Inhalation

Product: ATEmix: 4.37 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Asphalt in vivo (Rabbit): Experimental result, Key study

Xylene in vivo (Rabbit): Experimental result, Weight of Evidence study

Amorphous silica in vivo (Rabbit): Experimental result, Key study

Coal tar pitch in vivo (Rabbit): Experimental result, Key study

Carbon Black in vivo (Rabbit): Experimental result, Key study

Hydrodesulfurized middle distillate

in vivo (Rabbit): Experimental result, Key study

Toluene in vivo (Rabbit): Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.



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Specified substance(s):

Asphalt in vivo (Rabbit, 24 hrs): Not irritating

Xylene in vivo (Rabbit, 24 hrs): Moderately irritating

Amorphous silica in vivo (Rabbit, 24 hrs): Not irritating

Ethylbenzene in vivo (Rabbit, 7 d): Slightly irritating

Coal tar pitch in vivo (Rabbit, 1 hrs): Not irritating

Petroleum distillates in vivo (Rabbit, 24 hrs): Not an irritant

Residues (petroleum),

thermal cracked

in vivo (Rabbit, 24 hrs): Not an irritant

Carbon Black in vivo (Rabbit, 24 - 72 hrs): Not irritating

Hydrodesulfurized middle distillate

in vivo (Rabbit, 24 hrs): Not irritating

Toluene in vivo (Rabbit, 24 - 72 hrs): Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Asphalt Overall evaluation: Possibly carcinogenic to humans.

Ethylbenzene Overall evaluation: Possibly carcinogenic to humans.

Coal tar pitch Overall evaluation: Carcinogenic to humans.

Petroleum

distillates

Overall evaluation: Possibly carcinogenic to humans.

Carbon Black Overall evaluation: Possibly carcinogenic to humans.

Hydrodesulfurized middle distillate

Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Carcinogenic to humans. Overall evaluation: Not classifiable as

to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

Coal tar pitch Hydrodesulfurized middle distillate Known To Be Human Carcinogen. Known To Be Human Carcinogen.



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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product:
No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Xylene LC 50 (Bryconamericus iheringii, 96 h): 9.94 mg/l Read-across from

supporting substance (structural analogue or surrogate), Supporting study LC 50 (Oncorhynchus mykiss, 96 h): 8.05 mg/l Read-across from supporting

substance (structural analogue or surrogate), Supporting study LC 50 (Bryconamericus iheringii, 96 h): 6.9 mg/l Read-across from

supporting substance (structural analogue or surrogate), Supporting study LC 50 (Oncorhynchus mykiss, 96 h): 7.6 mg/l Read-across from supporting

substance (structural analogue or surrogate), Supporting study

LC 50 (Oncorhynchus mykiss, 96 h): 2.6 mg/l Read-across from supporting

substance (structural analogue or surrogate), Key study

Ethylbenzene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 9.1 - 15.6 mg/l

Mortality

Toluene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 20.5 - 23.8 mg/l

Mortality



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Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Xylene EC 50 (Daphnia magna, 48 h): 3.82 mg/l Read-across from supporting

substance (structural analogue or surrogate), Supporting study

EC 50 (Ceriodaphnia dubia, 48 h): > 3.4 mg/l Read-across from supporting

substance (structural analogue or surrogate), Supporting study IC 50 (Daphnia magna, 24 h): 4.7 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study IC 50 (Daphnia magna, 24 h): 3.6 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study IC 50 (Daphnia magna, 24 h): 2.2 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

Ethylbenzene LC 50 (Water flea (Daphnia magna), 24 h): 190 mg/l Mortality

Toluene LC 50 (Water flea (Daphnia magna), 24 h): 240 - 420 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Asphalt NOAEL (Oncorhynchus mykiss, 28 d): >= 1,000 mg/l Read-across from

supporting substance (structural analogue or surrogate), Key study LL 50 (Oncorhynchus mykiss, 28 d): > 1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Xylene NOAEL (Oncorhynchus mykiss, 56 d): > 1.3 mg/l Experimental result, Key

study

Coal tar pitch LC 50 (Danio rerio, 42 d): > 4 µg/l Read-across from supporting substance

(structural analogue or surrogate), Key study

NOAEL (Danio rerio, 42 d): 4 µg/l Read-across from supporting substance

(structural analogue or surrogate), Key study

Petroleum distillates NOAEL (Oncorhynchus mykiss, 28 d): 0.1 mg/l QSAR QSAR, Key study

Residues (petroleum), thermal cracked

NOAEL (Oncorhynchus mykiss, 28 d): 0.1 mg/l QSAR QSAR, Key study

Carbon Black NOAEL (Salmo sp., 30 d): 17 mg/l QSAR QSAR, Key study

Hydrodesulfurized middle

distillate

NOAEL (Oncorhynchus mykiss, 14 d): 0.069 mg/l QSAR QSAR, Key study

Toluene LOAEL (Oncorhynchus kisutch, 40 d): 2.77 mg/l Experimental result, Key

study

NOAEL (Pimephales promelas, 32 d): 4 mg/l Experimental result,

Supporting study

LOAEL (Pimephales promelas, 32 d): 6 mg/l Experimental result, Supporting

study

NOAEL (Oncorhynchus kisutch, 40 d): 1.39 mg/l Experimental result, Key

study

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Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Xylene NOAEL (Ceriodaphnia dubia, 7 d): 1.17 mg/l Read-across from supporting

substance (structural analogue or surrogate), Key study

NOAEL (Daphnia magna, 21 d): 1.57 mg/l Read-across from supporting

substance (structural analogue or surrogate), Supporting study

LOAEL (Daphnia magna, 21 d): 3.16 mg/l Read-across from supporting

substance (structural analogue or surrogate), Supporting study EC 10 (Daphnia magna, 21 d): 1.91 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study EC 50 (Daphnia magna, 21 d): 2.9 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Xylene Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 5.5 - < 12.2 Aquatic

sediment Experimental result, Key study

Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 8.1 - < 25.9 Aquatic

sediment Experimental result, Key study

Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.2 - < 24.2 Aquatic

sediment Experimental result, Key study

Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.4 - < 18.5 Aquatic

sediment Experimental result, Key study

Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.7 - < 21.2 Aquatic

sediment Experimental result, Key study

Toluene Green algae (Selenastrum capricornutum), Bioconcentration Factor (BCF):

3,016 (Static)

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Xylene Log Kow: 3.12 - 3.20

Ethylbenzene Log Kow: 3.15



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Toluene Log Kow: 2.73

Mobility in Soil: No data available.

Other Adverse Effects: Toxic to aquatic organisms.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

UN1325, FLAMMABLE SOLID, ORGANIC, N.O.S. (Xylene), 4.1, PG III

CFR / DOT:

UN1325, Flammable solids, organic, n.o.s. (Xylene), 4.1, PG III

IMDG:

UN1325, FLAMMABLE SOLID, ORGANIC, N.O.S. (Xylene), 4.1, PG III

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<u>Chemical Identity</u> <u>OSHA hazard(s)</u>

Benzene Blood

respiratory tract irritation Central nervous system

Flammability Cancer Skin

Aspiration Eye



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CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Asphalt	100 lbs.
Xylene	100 lbs.
Ethylbenzene	1000 lbs.
Toluene	1000 lbs.
Fluorathene	100 lbs.
Phenanthrene	5000 lbs.
Naphthalene	100 lbs.
Anthracene	5000 lbs.
Indeno[1,2,3-cd]pyrene	100 lbs.
Benzo(a)anthracene	10 lbs.
Chrysene	100 lbs.
Benzo(a)pyrene	1 lbs.
Acenaphthene	100 lbs.
Dibenzofuran	100 lbs.
Benzo(b)fluoranthene/benzo[e]acefenantri	ileno 1 lbs.
Biphenyl	100 lbs.
Dibenz(a,h)anthracene	1 lbs.
Benzene	10 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

TREMCO

Fire Hazard

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Asphalt	100 lbs.
Xylene	100 lbs.
Ethylbenzene	1000 lbs.
Toluene	1000 lbs.
Fluorathene	100 lbs.
Phenanthrene	5000 lbs.
Naphthalene	100 lbs.
Anthracene	5000 lbs.
Indeno[1,2,3-cd]pyrene	100 lbs.
Benzo(a)anthracene	10 lbs.
Chrysene	100 lbs.
Benzo(a)pyrene	1 lbs.
Acenaphthene	100 lbs.
Dibenzofuran	100 lbs.
Benzo(b)fluoranthene/benzo[e]acefenantrileno	1 lbs.
Biphenyl	100 lbs.
Dibenz(a,h)anthracene	1 lbs.
Benzene	10 lbs.



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SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Asphalt	500 lbs
Xylene	500 lbs
Amorphous silica	500 lbs
Ethylbenzene	500 lbs
Coal tar pitch	500 lbs
Petroleum distillates	500 lbs
Residues (petroleum),	500 lbs
thermal cracked	
Polyethylene	500 lbs
Carbon Black	500 lbs
Hydrodesulfurized middle	500 lbs
distillate	
Toluene	500 lbs

SARA 313 (TRI Reporting)

Chemical Identity

Xylene

Ethylbenzene

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity Reportable quantity

Xylene 100 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Asphalt

Xylene

Amorphous silica

Ethylbenzene

Coal tar pitch

Carbon Black



Revision Date: 04/12/2016

US. Massachusetts RTK - Substance List

Chemical Identity

Asphalt Xylene

Amorphous silica Ethylbenzene

Coal tar pitch

Indeno[1,2,3-cd]pyrene

Benzo(a)anthracene

Chrysene

Benzo(a)pyrene

Benzo(b)fluoranthene/benzo[e]acefenantrileno

Dibenz(a,h)anthracene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Asphalt

Xylene

Amorphous silica

Ethylbenzene

Coal tar pitch

US. Rhode Island RTK

Chemical Identity

Xylene

Ethylbenzene

Other Regulations:

Regulatory VOC (less water

277 g/l

and exempt solvent):

VOC Method 310: 28.21 %

Inventory Status:

Australia AICS:

One or more components in this product are not listed on or exempt from the Inventory.

Canada DSL Inventory List:

One or more components in this product are not listed on or exempt from the Inventory.

EINECS, ELINCS or NLP:

One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List:

One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

One or more components in this product are not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI):

One or more components in this product are not listed on or exempt from the Inventory.



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Canada NDSL Inventory:

One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are

not listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals:

One or more components in this product are

not listed on or exempt from the Inventory.

Japan ISHL Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

16.Other information, including date of preparation or last revision

Revision Date: 04/12/2016

Version #: 3.1

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard

information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.