SAFETY DATA SHEET

1. Identification

Material name: ONESEAL CLEAN & PRIME 6/CASE
Material: 6637837 213

Recommended use and restriction on use

Recommended use: Cleaning agent
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 Department
Telephone:	216-292-5000
Emergency telephone number:	1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol	Category 1

Health Hazards

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

Unknown toxicity - Health

Acute toxicity, oral	24.49 %
Acute toxicity, dermal	25 %
Acute toxicity, inhalation, vapor	89.5 %
Acute toxicity, inhalation, dust or mist	100 %

Environmental Hazards

Acute hazards to the aquatic environment	Category 3

Unknown toxicity - Environment

Acute hazards to the aquatic environment	26.49 %
Chronic hazards to the aquatic environment	100 %

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
Harmful to aquatic life.
Pressurized container: May burst if heated.

Precautionary Statement:

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. 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 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. If exposed or concerned: Get medical advice/attention.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. 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 (%)*
Methyl acetate	79-20-9	40 - 70%
Liquefied petroleum gases	68476-86-8	15 - 40%
Methyl ethyl ketone	78-93-3	10 - 30%
Butyl acetate	123-86-4	10 - 30%
Aromatic petroleum distillates	64742-95-6	1 - 5%
Cumene	98-82-8	0.5 - 1.5%
Ethylbenzene	100-41-4	0.5 - 1.5%
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1.5%

Methanol	67-56-1	0.5 - 1.5%
Chlorobenzene	108-90-7	0.5 - 1.5%
m-Xylene	108-38-3	0.5 - 1.5%
ortho-Xylene	95-47-6	0.5 - 1.5%

* 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: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical 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. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

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: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

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). Keep upwind.

Methods and material for containment and cleaning up: Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values	Source
Methyl acetate	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	200 ppm 610 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Methyl ethyl ketone	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	300 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	200 ppm 590 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Butyl acetate	TWA	150 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	200 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	150 ppm 710 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

1,2,4-Trimethylbenzene	TWA	25 ppm	US. ACGIH Threshold Limit Values (2011)
Methanol	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	200 ppm 260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Cumene	TWA	50 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	50 ppm 245 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Chlorobenzene	TWA	10 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	75 ppm 350 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
m-Xylene	TWA	100 ppm	US. ACGIH Threshold Limit Values (02 2012)
	STEL	150 ppm	US. ACGIH Threshold Limit Values (02 2012)
	PEL	100 ppm 435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
ortho-Xylene	STEL	150 ppm	US. ACGIH Threshold Limit Values (03 2014)
	TWA	100 ppm	US. ACGIH Threshold Limit Values (03 2014)
	PEL	100 ppm 435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Ethylbenzene	TWA	20 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	100 ppm 435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Chemical name	**type**	**Exposure Limit Values**	**Source**
Methyl acetate	TWA	200 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	250 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Methyl acetate	TWAEV	200 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	250 ppm	Canada. Ontario OELs. (Control of

				Exposure to Biological or Chemical Agents) (11 2010)
Methyl acetate	TWA	200 ppm	606 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	250 ppm	757 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Methyl ethyl ketone	TWA	50 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	100 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Methyl ethyl ketone	TWAEV	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	300 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Methyl ethyl ketone	TWA	50 ppm	150 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	100 ppm	300 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Butyl acetate	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Butyl acetate	STEL	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	TWAEV	150 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Butyl acetate	STEL	200 ppm	950 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	TWA	150 ppm	713 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

1,2,4-Trimethylbenzene	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,2,4-Trimethylbenzene	TWAEV	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
1,2,4-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Cumene	STEL	75 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Cumene	TWAEV	50 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Cumene	TWA	50 ppm	246 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)
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)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Methyl ethyl ketone (MEK: Sampling time: End of shift.)	2 mg/l (Urine)	ACGIH BEI (03 2013)
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEI (03 2013)
Chlorobenzene (4-Chlorocatechol, with hydrolysis: Sampling time: End of shift at end of work week.)	100 mg/g (Creatinine in urine)	ACGIH BEI (03 2013)
Chlorobenzene (p-Chlorophenol, with hydrolysis: Sampling time: End of shift at end of work week.)	20 mg/g (Creatinine in urine)	ACGIH BEI (03 2013)
m-Xylene (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEI (03 2013)
ortho-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)

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. 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: No data available.

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. Avoid contact with eyes. When using do not smoke.

9. Physical and chemical properties

Appearance

Physical state:	Aerosols
Form:	Aerosols
Color:	No data available.
Odor:	Strong petroleum/solvent
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	-56 °C -69 °F
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	Yes
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	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:	0.787
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	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:	Avoid heat or contamination.
Incompatible Materials:	Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and 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.
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 serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: ATEmix: 15,509.75 mg/kg

Dermal
Product: ATEmix: 2,884.62 mg/kg

Inhalation
Product: No data available.

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.

Specified substance(s):

Methyl acetate	in vivo (Rabbit): Experimental result, Key study
Methyl ethyl ketone	in vivo (Rabbit): Read-across from supporting substance (structural analogue or surrogate), Key study
Butyl acetate	in vivo (Rabbit): Experimental result, Key study

Aromatic petroleum distillates	in vivo (Rabbit): Experimental result, Key study
Cumene	in vivo (Rabbit): Experimental result, Key study
1,2,4-Trimethylbenzene	in vivo (Rabbit): Read-across from supporting substance (structural analogue or surrogate), Key study
Methanol	in vivo (Rabbit): Experimental result, Key study
m-Xylene	in vivo (Rabbit): Experimental result, Weight of Evidence study
ortho-Xylene	in vivo (Rabbit): Experimental result, Supporting study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Methyl acetate	Irritating in vivo (Rabbit): Irritating
Methyl ethyl ketone	Irritating in vivo (Rabbit, 24 hrs): Category 2
Butyl acetate	in vivo (Rabbit, 24 - 72 hrs): Not irritating
Aromatic petroleum distillates	in vivo (Rabbit, 24 - 72 hrs): Not irritating
Cumene	in vivo (Rabbit, 24 hrs): Not irritating
Ethylbenzene	in vivo (Rabbit, 7 d): Slightly irritating
1,2,4-Trimethylbenzene	in vivo (Rabbit, 30 min): Not irritating
Methanol	in vivo (Rabbit, 24 hrs): Not irritating
Chlorobenzene	in vivo (Rabbit, 24 - 72 hrs): Not irritating
m-Xylene	in vivo (Rabbit, 24 hrs): Moderately irritating
ortho-Xylene	in vivo (Rabbit, 24 hrs): Moderately irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Cumene	Overall evaluation: Possibly carcinogenic to humans.
Ethylbenzene	Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:
Cumene Reasonably Anticipated to be a Human Carcinogen.

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: No data available.

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):

Methyl acetate	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 295 - 348 mg/l Mortality

Methyl ethyl ketone	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 3,130 - 3,320 mg/l Mortality
Butyl acetate	LC 50 (Zebra danio (Danio rerio), 96 h): 62 mg/l Mortality
Cumene	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 6.04 - 6.61 mg/l Mortality
Ethylbenzene	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 9.1 - 15.6 mg/l Mortality
1,2,4-Trimethylbenzene	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 7.19 - 8.28 mg/l Mortality
Methanol	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 28,200 mg/l Mortality
Chlorobenzene	LC 50 (Bluegill (Lepomis macrochirus), 8 h): 6 mg/l Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 16 d): < 0.09 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 16 h): 6 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 24 h): 17 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 24 h): 18.88 - 30.51 mg/l Mortality
m-Xylene	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 14.31 - 18.01 mg/l Mortality
ortho-Xylene	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 11.6 - 22.4 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Methyl ethyl ketone	LC 50 (Water flea (Daphnia magna), 24 h): 8,890 mg/l Mortality LC 50 (Water flea (Daphnia magna), 48 h): > 520 mg/l Mortality LC 50 (Opossum shrimp (Americamysis bahia), 96 h): > 402 mg/l Mortality LC 50 (Water flea (Daphnia magna), 24 h): > 520 mg/l Mortality
Butyl acetate	LC 50 (Water flea (Daphnia magna), 24 h): 205 mg/l Mortality
Cumene	LC 50 (Water flea (Daphnia magna), 24 h): 95 mg/l Mortality
Ethylbenzene	LC 50 (Water flea (Daphnia magna), 24 h): 190 mg/l Mortality
1,2,4-Trimethylbenzene	LC 50 (Scud (Elasmopus pectinicrus), 24 h): 4.89 - 5.62 mg/l Mortality
Methanol	LC 50 (Water flea (Daphnia magna), 24 h): 3,616 - 6,414 mg/l Mortality EC 50 (Water flea (Daphnia magna), 48 h): > 10,000 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Intoxication LC 50 (Water flea (Daphnia magna), 96 h): > 100 mg/l Mortality LC 50 (Oligochaete, worm (Lumbriculus variegatus), 96 h): > 100 mg/l Mortality
Chlorobenzene	LC 50 (Water flea (Daphnia magna), 24 h): 310 mg/l Mortality
m-Xylene	EC 50 (Water flea (Daphnia magna), 24 h): 4.7 mg/l Intoxication

ortho-Xylene	LC 50 (Water flea (Daphnia magna), 48 h): 11.2 - 20.3 mg/l Mortality EC 50 (Water flea (Daphnia magna), 48 h): < 1.39 mg/l Intoxication LC 50 (Snail (Aplexa hypnorum), 96 h): > 22.4 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Aromatic petroleum distillates	EC 50 (Daphnia magna, 21 d): 10 mg/l Other, Key study
Cumene	NOAEL (Danio rerio; Pimephales promelas, 28 d): 0.38 mg/l QSAR QSAR, Key study
Methanol	NOAEL (Oryzias latipes, 200 h): 15,800 mg/l Experimental result, Supporting study NOAEL (Oryzias latipes, 200 h): 158,000 mg/l Experimental result, Supporting study EC 50 (Oryzias latipes, 200 h): 9,164 mg/l Experimental result, Supporting study EC 50 (Oryzias latipes, 200 h): 10,270 mg/l Experimental result, Supporting study LOAEL (Oryzias latipes, 200 h): 7,900 mg/l Experimental result, Supporting study
Chlorobenzene	LC 50 (Various, 4 d): 0.11 mg/l Experimental result, Not specified LC 50 (Various, 4 d): 0.88 mg/l Experimental result, Not specified LOAEL (21 d): 0.63 mg/l Experimental result, Key study LC 50 (Poecilia reticulata, 14 d): 19.1 mg/l Experimental result, Supporting study LC 50 (Various, 4 d): 0.05 mg/l Experimental result, Not specified
m-Xylene	NOAEL (Oncorhynchus mykiss, 56 d): > 1.3 mg/l Read-across based on grouping of substances (category approach), Key study
ortho-Xylene	NOAEL (Oncorhynchus mykiss, 56 d): > 1.3 mg/l Read-across based on grouping of substances (category approach), Key study

Aquatic Invertebrates

Product: No data available.

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):

Methanol	Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF): 28,400 (Static)
Chlorobenzene	Green algae (Selenastrum capricornutum), Bioconcentration Factor (BCF): 2,172 (Static) Western mosquitofish (Gambusia affinis), Bioconcentration Factor (BCF): 645 (Static) Water flea (Daphnia magna), Bioconcentration Factor (BCF): 2,789 (Static) Southern house mosquito (Culex quinquefasciatus), Bioconcentration Factor (BCF): 1,292 (Static) Ide, silver or golden orfe (Leuciscus idus), Bioconcentration Factor (BCF): 75 (Not reported)

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Methyl acetate	Log Kow: 0.18
Methyl ethyl ketone	Log Kow: 0.29
Butyl acetate	Log Kow: 1.78
Cumene	Log Kow: 3.66
Ethylbenzene	Log Kow: 3.15
Methanol	Log Kow: -0.77
Chlorobenzene	Log Kow: 2.89
m-Xylene	Log Kow: 3.20
ortho-Xylene	Log Kow: 3.12

Mobility in Soil: No data available.

Other Adverse Effects: Harmful 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:

UN1950, AEROSOLS, 2.1

CFR / DOT:

UN1950, Aerosols, 2.1

IMDG:

UN1950, AEROSOLS, 2.1

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)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Methyl acetate	100 lbs.
Methyl ethyl ketone	5000 lbs.
Butyl acetate	5000 lbs.
Methanol	5000 lbs.
Cumene	5000 lbs.
Chlorobenzene	100 lbs.
m-Xylene	1000 lbs.
ortho-Xylene	1000 lbs.
Ethylbenzene	1000 lbs.
p-Xylene	100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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
Methyl acetate	100 lbs.
Methyl ethyl ketone	5000 lbs.
Butyl acetate	5000 lbs.
Methanol	5000 lbs.
Cumene	5000 lbs.
Chlorobenzene	100 lbs.
m-Xylene	1000 lbs.
ortho-Xylene	1000 lbs.
Ethylbenzene	1000 lbs.
p-Xylene	100 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Methyl acetate	500 lbs
Liquefied petroleum gases	500 lbs
Methyl ethyl ketone	500 lbs
Butyl acetate	500 lbs
Aromatic petroleum distillates	500 lbs
Cumene	500 lbs
Ethylbenzene	500 lbs
1,2,4-Trimethylbenzene	500 lbs
Methanol	500 lbs
Chlorobenzene	500 lbs
m-Xylene	500 lbs
ortho-Xylene	500 lbs

SARA 313 (TRI Reporting)

Chemical Identity
Ethylbenzene

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

None present or none present in regulated quantities.

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
Methyl acetate
Methyl ethyl ketone
Butyl acetate
Ethylbenzene

US. Massachusetts RTK - Substance List

Chemical Identity
Methyl acetate
Methyl ethyl ketone
Butyl acetate

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Methyl acetate
Methyl ethyl ketone
Butyl acetate

US. Rhode Island RTK

Chemical Identity
Methyl ethyl ketone
Butyl acetate

Other Regulations:

Regulatory VOC (less water and exempt solvent):	642 g/l
VOC Method 310:	46.50 %

Inventory Status:

Australia AICS:	All components in this product are listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are 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:	All components in this product are listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	All components in this product are listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals:	All components in this product are 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.

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

Revision Date:	06/27/2016
Version #:	1.0
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.