This brief provides a general overview of the **Safety Data Sheet** requirements in the Hazard Communication Standard OSHA's 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200).

Section 1 ~ Identification

Identity (As Used On Label and List)	**Date Prepared:**
A1127 LITHO WHITE GREASE	06-11-2023
Company Information:	**Emergency Telephone Number:**
OMEGA INDUSTRIAL SUPPLY, INC	1-800-424-9300
Address (Number, Street, Suite/Apt#)	**Telephone Number for Information:**
101 Grobric Ct #1	1-800-571-7347
(City, State, and Zip Code)	**Signature of Prepare (Optional)**
Fairfield, CA 94534	REGULATORY DEPT.

Section 2 ~ Hazard(s) Identification

Physical Hazards Flammable aerosol Category 1
Health Hazards Aspiration Hazard Category 1
Environmental Hazards Acute hazards to the aquatic environment Category 2
Chronic hazards to the aquatic environment Category 2

Label Elements

Hazard Symbols

Signal Word Danger.
Hazard Statement Extremely flammable aerosol. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.
Precautionary Statements

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. Avoid release to the environment.
Response **If Swallowed:** Immediately call a POISON CENTER/doctor Do NOT induce vomiting. Collect spillage.
Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.
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.

Hazard(s) not Otherwise Classified (HNOC) None

Section 3 ~ Composition/Information on Ingredients

Mixtures

Chemical Identity	**CAS No.**	**%(Wt.)**
Distillates (petroleum), hydrotreated light	64742-47-8	25 - <50%
Propane	74-98-6	10 - <20%
Heptane, branched, cyclic and linear	426260-76-6	2.5 - <5%
Heptane	142-82-5	1 - <5%
Naphtha (petroleum), hydrotreated light	64742-49-0	1 - <5%
Solvent naphtha (petroleum), light aliph.	64742-89-8	1 - <5%
Titanium oxide (TiO2)	13463-67-7	1 - <5%

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

Section 4 ~ First Aid Measures

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
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: No data available.
Hazards: No data available.
Indication of Immediate Medical Attention and Special Treatment Needed
Treatment: No data available.

Section 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.

Section 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: Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.
Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

Section 7 ~ Handling and Storage

Precautions for Safe 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.

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. Aerosol Level 2

Section 8 ~ Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Distillates (petroleum), hydrotreated light	REL	100 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	US. ACGIH Threshold Limit Values, as amended (2008)
	TWA	200 mg/m3	US. ACGIH Threshold Limit Values, as amended (2008)
Propane	REL	1,000 ppm 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	TWA	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Naphtha (petroleum), hydrotreated light	PEL	100 ppm 400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	REL		
	TWA	100 ppm 400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
		100 ppm 400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Solvent naphtha (petroleum), light aliph.	REL	100 ppm 400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	TWA	100 ppm 400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	PEL	100 ppm 400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
Heptane	TWA	100 ppm 400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	REL	85 ppm 350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	STEL	400 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	500 ppm	US. ACGIH Threshold Limit Values, as amended (02 2012)
	Ceil_Time	440 ppm 1,800 mg/m3	US. ACGIH Threshold Limit Values, as amended (02 2012)
Titanium oxide (TiO2)	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (2008)
Titanium oxide (TiO2) - Total dust.	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Titanium oxide (TiO2) - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Titanium oxide (TiO2) - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Benzene, methyl-	STEL	150 ppm 560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	REL	100 ppm 375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	TWA	100 ppm 375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	Ceiling	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended (02 2006)
	TWA	20 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
	TWA	200 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended (02 2006)
	MAX. CONC	500 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended (02 2006)
	STEL	100 ppm 560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Benzene	REL	0.1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	TWA	1 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	Ceiling	25 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended (02 2006)
	TWA	0.5 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
	STEL	2.5 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
	STEL	5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (02 2006)
	OSHA_ACT	0.5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (02 2006)
	TWA	10 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended (02 2006)
	MAX. CONC	50 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended (02 2006)
	STEL	5 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (02 2006)
	STEL	1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Benzene, (1-methylethyl)-	REL	50 ppm 245 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	TWA	50 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
	PEL	50 ppm 245 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	TWA	50 ppm 245 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended (03 2018)
Benzene, ethyl-	STEL	125 ppm 545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	REL	100 ppm 435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	100 ppm 435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	STEL	125 ppm 545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	100 ppm 435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	20 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)

Biological Limit Values

Chemical Identity	Exposure Limit	Values Source
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (03 2013)
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (03 2013)
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 µg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 µg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL (02 2014)

Appropriate Engineering Controls: No data available.

Individual Protection Measures, Such as Personal Protective Equipment

General Information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

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. When using do not smoke.

Section 9 ~ Physical and Chemical Properties

Appearance

Physical State: liquid

Form: Aerosol

Color: White

Odor: No data available.

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: -104.4°C

Evaporation Rate: No data available.

Flammability (solid, gas): No data available.

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: 4,826 – 6,205 hPa (20 °C).

Vapor Density: No data available.

Density: No data available.

Relative Density: No data available.

Solubility(ies)

Solubility in Water: No data available.

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.

Section 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: No data available.

Hazardous Decomposition Products: No data available.

Section 11 ~ Toxicological Information

Information on Likely Routes of Exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye Contact: No data available.

Ingestion: No data available.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye Contact: No data available.

Ingestion: No data available.

Information on Toxicological Effects

Acute Toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified Substance(s):

Distillates (petroleum), hydrotreated light
LD 50 (Rat): > 5,000 mg/kg

Heptane, branched, cyclic and linear
LD 50: > 2,000 mg/kg

Heptane
LD 50 (Rat): > 5,000 mg/kg

Naphtha (petroleum), hydrotreated light
LD 50 (Rat): > 5,000 mg/kg

Solvent naphtha (petroleum), light aliph.
LD 50 (Rat): > 5,000 mg/kg

Titanium oxide (TiO2)
LD 50 (Rat): > 5,000 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified Substance(s):

Distillates (petroleum), hydrotreated light
LD 50 (Rabbit): > 2,000 mg/kg

Heptane, branched, cyclic and linear
LD 50: > 2,000 mg/kg

Heptane
LD 50 (Rabbit): > 2,000 mg/kg

Naphtha (petroleum), hydrotreated light
LD 50 (Rabbit): > 3,750 mg/kg
Solvent naphtha (petroleum), light aliph.
LD 50 (Rabbit): > 3,000 mg/kg
Titanium oxide (TiO2)
LD 50: > 2,000 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified Substance(s):

Distillates (petroleum), hydrotreated light
LC 50: > 5 mg/l
LC 50: > 20 mg/l
Propane
LC 50: > 100 mg/l
LC 50: > 100 mg/l
Heptane, branched, cyclic and linear
LC 50: > 20 mg/l
LC 50: > 5 mg/l
Heptane
LC 50 (Rat): > 29.29 mg/l
LC 50: > 100 mg/l
Naphtha (petroleum), hydrotreated light
LOAEL (Human): 2,400 mg/m3
LC 50 (Rat): > 7,630 mg/m3
LC 50: > 5 mg/l
Solvent naphtha (petroleum), light aliph.
LC 50: > 100 mg/l
LC 50: > 100 mg/l
Titanium oxide (TiO2)
LC 50 (Rat): > 6.82 mg/l

Repeated Dose Toxicity

Product: No data available.

Specified Substance(s):

Distillates (petroleum), hydrotreated light
NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation Experimental result, Key study
NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study
Propane
NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
Heptane
NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 Inhalation Experimental result, Key study
Naphtha (petroleum), hydrotreated light
LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Read-across based on grouping of substances (category approach), Key study
NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal Experimental result, Supporting study
NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m3 Inhalation Experimental result, Key study
Solvent naphtha (petroleum), light aliph.
NOAEL (Mouse, Rat(Female, Male), Inhalation, 107 - 113 Weeks): 1,402 mg/m3 Inhalation Experimental result, Key study
NOAEL (Rat(Female, Male), Dermal, 5 - 28 d): 3,750 mg/kg Dermal Experimental result, Key study
NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal Experimental result, Supporting study
Titanium oxide (TiO2)
NOAEL (Rat(Male), Oral, 29 d): 24,000 mg/kg Oral Experimental result, Key study
NOAEL (Rat(Female, Male), Inhalation): 50 mg/m3 Inhalation Experimental result, Key study

Skin Corrosion/Irritation

Product: No data available.

Specified Substance(s):

Distillates (petroleum), hydrotreated light
in vivo (Rabbit): Not irritant Experimental result, Key study
Heptane
in vivo (Rabbit): Irritating Read-across based on grouping of substances (category approach), Key study
Titanium oxide (TiO2)
in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified Substance(s):

Distillates (petroleum), hydrotreated light
Rabbit, 24 - 72 hrs: Not irritating
Heptane
Rabbit, 24 - 72 hrs: Not irritating
Naphtha (petroleum), hydrotreated light
Rabbit, 24 - 72 hrs: Not irritating
Solvent naphtha (petroleum), light aliph.
Rabbit: Not irritating
Titanium oxide (TiO2)
Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Specified Substance(s):

Distillates (petroleum), hydrotreated light
Skin sensitization:, in vivo (Guinea pig): Non sensitizing
Heptane
Skin sensitization:, in vivo (Guinea pig): Non sensitizing

Naphtha (petroleum), hydrotreated light
Skin sensitization:, in vivo (Guinea pig): Non sensitizing
Solvent naphtha (petroleum), light aliph.
Skin sensitization:, in vivo (Guinea pig): Non sensitizing
Titanium oxide (TiO2)
Skin sensitization:, in vivo/in vitro (Guinea pig): Non sensitizing
Carcinogenicity
Product: No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified
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.
Specified Substance(s):
Heptane
Narcotic effect. - Category 3 with narcotic effects.
Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.
Aspiration Hazard
Product: No data available.
Specified Substance(s):
Distillates (petroleum), hydrotreated light
May be fatal if swallowed and enters airways.
Heptane, branched, cyclic and linear
May be fatal if swallowed and enters airways.
Heptane
May be fatal if swallowed and enters airways.
Naphtha (petroleum), hydrotreated light
May be fatal if swallowed and enters airways.
Solvent naphtha (petroleum), light aliph.
May be fatal if swallowed and enters airways.
Other Effects: No data available.

Section 12 ~ Ecological Information

Ecotoxicity:
Acute Hazards to the Aquatic Environment:
Fish
Product: No data available.
Specified Substance(s):
Propane
LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Heptane
LC 50 (Mozambique tilapia (Tilapia mossambica), 96 h): 375 mg/l Mortality
Naphtha (petroleum), hydrotreated light
LC 50 (96 h): 8.41 mg/l Experimental result, Key study
Titanium oxide (TiO2)
LC 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l Experimental result, Weight of Evidence study
Aquatic Invertebrates
Product: No data available.
Specified Substance(s):
Heptane
EC 50 (Daphnia magna, 48 h): 1.5 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light
EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study
Solvent naphtha (petroleum), light aliph.
EC 50 (Daphnia magna, 48 h): 32 mg/l Experimental result, Supporting study
Titanium oxide (TiO2)
LC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Weight of Evidence study
Chronic Hazards to the Aquatic Environment:
Fish
Product: No data available.
Specified Substance(s):
Distillates (petroleum), hydrotreated light
NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
Heptane
NOAEL (Oncorhynchus mykiss): 1.284 mg/l QSAR QSAR, Key study
Naphtha (petroleum), hydrotreated light
EC 50 (Daphnia magna): 10 mg/l Other, Key study
NOAEL (Daphnia magna): 2.6 mg/l Other, Key study
Aquatic Invertebrates
Product: No data available.
Specified Substance(s):
Heptane, branched, cyclic and linear
NOEC : < 1 mg/l estimation

Heptane
NOAEL (Daphnia magna): 0.17 mg/l Read-across based on grouping of substances (category approach), Key study
EC 50 (Daphnia magna): 0.23 mg/l Read-across based on grouping of substances (category approach), Key study
Naphtha (petroleum), hydrotreated light
EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study
NOAEL (Daphnia magna): 2.6 mg/l Experimental result, Key study
Solvent naphtha (petroleum), light aliph.
EC 50 (Daphnia magna): > 40 mg/l Experimental result, Key study
Titanium oxide (TiO2)
NOAEL (Daphnia magna): 100 mg/l Experimental result, Supporting study

Toxicity to Aquatic Plants
Product: No data available.
Persistence and Degradability
Biodegradation
Product: No data available.
Specified Substance(s):
Distillates (petroleum), hydrotreated light
61 % Detected in water. Experimental result, Supporting study
Propane
100 % (385.5 h) Detected in water. Experimental result, Key study
50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
Heptane
70 % Detected in water. Experimental result, Key study
Naphtha (petroleum), hydrotreated light
90.35 % (28 d) Detected in water. Experimental result, Supporting study
Solvent naphtha (petroleum), light aliph.
90.35 % (28 d) Detected in water. Experimental result, Supporting study
BOD/COD Ratio
Product: No data available.
Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.
Specified Substance(s):
Heptane
Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by calculation, Key study
Naphtha (petroleum), hydrotreated light
Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study
Solvent naphtha (petroleum), light aliph.
Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study
Titanium oxide (TiO2)
Oncorhynchus mykiss, Bioconcentration Factor (BCF): 34 - 352 Aquatic sediment Experimental result, Key study
Partition Coefficient n-octanol / water (log Kow)
Product: No data available.
Specified substance(s):
Naphtha (petroleum), hydrotreated light
Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study
Log Kow: 2.2 - 5.2 23 °C Yes Experimental result, Key study
Log Kow: 2.2 - 6.1 23 °C Yes Experimental result, Key study
Mobility in Soil: No data available.
Known or Predicted Distribution to Environmental Compartments

Distillates (petroleum), hydrotreated light	No data available.
Propane	No data available.
Heptane, branched, cyclic and linear	No data available.
Heptane	No data available.
Naphtha (petroleum), hydrotreated light	No data available.
Solvent naphtha (petroleum), light aliph.	No data available.
Titanium oxide (TiO2)	No data available.

Other Adverse Effects: Toxic to aquatic life with long lasting effects.

Section 13 ~ Disposal Considerations

Disposal Instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.

Section 14 ~ Transportation Information

DOT	IMDG	IATA
UN Number: UN 1950	**UN Number:** UN 1950	**UN Number:** UN 1950
UN Proper Shipping Name: Aerosols, flammable	**UN Proper Shipping Name:** Aerosols, flammable	**Proper Shipping Name:** Aerosols, flammable
Transport Hazard Class(es)	**Transport Hazard Class(es)**	**Transport Hazard Class(es):**
Class: 2.1	**Class:** 2	**Class:** 2.1
Label(s): –	**Label(s):** –	**Label(s):** –
Packing Group: II	**EmS No.:** F-D, S-U	**Packing Group:** –
Marine Pollutant: No	**Packing Group:** –	**Environmental Hazards:** Yes
Environmental Hazards: No	**Environmental Hazards:** Yes	**Marine Pollutant** No
Marine Pollutant No	**Marine Pollutant** No	**Special Precautions for User:** Not regulated.
Special Precautions for User: Not regulated.	**Special Precautions for User:** Not regulated.	**Cargo Aircraft Only:** Allowed.

Section 15 ~ Regulatory Information

US Federal Regulations

Restrictions on Use: Not known.

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

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

Chemical Identity	OSHA Hazard(s)
Benzene	Flammability
	Cancer
	Aspiration
	Eye
	Blood
	Skin
	Respiratory tract irritation
	Central nervous system

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Propane	lbs. 100
Heptane	lbs. 100
Benzene, methyl-	lbs. 1000
Benzene	lbs. 10
Benzene, (1-methylethyl)-	lbs. 5000
Benzene, ethyl-	lbs. 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories

Fire Hazard
Immediate (Acute) Health Hazards
Flammable aerosol
Aspiration Hazard

SARA 302 Extremely Hazardous Substance

Chemical Identity	Reportable quantity	Threshold Planning Quantity
Distillates (petroleum), hydrotreated light		

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Distillates (petroleum), hydrotreated light	
Propane	lbs. 100
Heptane	lbs. 100
Benzene, methyl-	lbs. 1000
Benzene	lbs. 10
Benzene, (1-methylethyl)-	lbs. 5000
Benzene, ethyl-	lbs. 1000

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Distillates (petroleum), hydrotreated light	10000 lbs
Propane	10000 lbs
Heptane, branched, cyclic and linear	10000 lbs
Heptane	10000 lbs
Naphtha (petroleum), hydrotreated light	10000 lbs
Solvent naphtha (petroleum), light aliph.	10000 lbs
Titanium oxide (TiO2)	10000 lbs
Benzene, methyl-	10000 lbs
Benzene	10000 lbs
Benzene, (1-methylethyl)-	10000 lbs
Benzene, ethyl-	10000 lbs

SARA 313 (TRI Reporting): None present or none present in regulated quantities.

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

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

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.

Titanium oxide (TiO2)	Carcinogenic. 09 2011
Benzene, methyl-	Developmental toxin. 03 2008
Benzene	Developmental toxin. 03 2008
Benzene	Carcinogenic. 05 2011
Benzene	Male reproductive toxin. 03 2008
Benzene, (1-methylethyl)-	Carcinogenic. 05 2011
Benzene, ethyl-	Carcinogenic. 05 2011

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

Chemical Identity

Distillates (petroleum), hydrotreated light
Propane
Naphtha (petroleum), hydrotreated light
Solvent naphtha (petroleum), light aliph.
Heptane
Titanium oxide (TiO2)

US. Massachusetts RTK - Substance List

Chemical Identity

Benzene

US. Pennsylvania RTK - Hazardous Substances
Chemical Identity
Distillates (petroleum), hydrotreated light
Propane
Naphtha (petroleum), hydrotreated light
Solvent naphtha (petroleum), light aliph.
Heptane
Titanium oxide (TiO2)
US. Rhode Island RTK No ingredient regulated by RI Right-to-Know Law present.
International Regulations
Montreal protocol
Distillates (petroleum), hydrotreated light
Stockholm convention
Distillates (petroleum), hydrotreated light
Rotterdam convention
Distillates (petroleum), hydrotreated light
Kyoto protocol
Inventory Status:
Australia AICS: Not in compliance with the inventory.
Canada DSL Inventory List: On or in compliance with the inventory
EINECS, ELINCS or NLP: Not in compliance with the inventory.
Japan (ENCS) List: Not in compliance with the inventory.
China Inv. Existing Chemical Substances: Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.
Canada NDSL Inventory: Not in compliance with the inventory.
Philippines PICCS: On or in compliance with the inventory
US TSCA Inventory: On or in compliance with the inventory
New Zealand Inventory of Chemicals: Not in compliance with the inventory.
Japan ISHL Listing: Not in compliance with the inventory.
Japan Pharmacopoeia Listing: Not in compliance with the inventory.
Mexico INSQ: Not in compliance with the inventory.
Ontario Inventory: Not in compliance with the inventory.
Taiwan Chemical Substance Inventory: On or in compliance with the inventory

Section 16 ~ Other Information