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# SAFETY DATA SHEET

# 1. Identification

Product identifier: CLAIRE INDUSTRIAL WHITE GREASE

Other means of identification

**SDS number:** RE1000029335

Recommended restrictions

Product use: Lubricant

Restrictions on use: Not known.

#### Manufacturer/Importer/Distributor Information

#### Manufacturer

Telephone:

Company Name: CLAIRE MANUFACTURING COMPANY

Address: 1000 Integram Dr

Pacific, MO 63069 1-630-543-7600

Fax:

Emergency telephone number: 1-866-836-8855

# 2. Hazard(s) identification

#### **Hazard Classification**

**Physical Hazards** 

Flammable aerosol Category 1

**Health Hazards** 

Aspiration Hazard Category 1

#### **Environmental Hazards**

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 2

environment

#### **Label Elements**

# **Hazard Symbol:**



Signal Word: Danger



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**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.

**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.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
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%

<sup>\*</sup> 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 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.



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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.

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:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

**Notification Procedures:** 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.



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# 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

# 8. Exposure controls/personal protection

# **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
Distillates (petroleum), hydrotreated light	REL	100 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates (petroleum), hydrotreated light - Non- aerosol as total hydrocarbon vapor	TWA	200 mg/m3	US. ACGIH Threshold Limit Values (2008)
•	TWA	200 mg/m3	US. ACGIH Threshold Limit Values (2008)
Propane	REL	1,000 ppm 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Naphtha (petroleum), hydrotreated light	PEL	100 ppm 400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
	REL	100 ppm 400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	100 ppm 400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Solvent naphtha (petroleum), light aliph.	REL	100 ppm 400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	100 ppm 400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	100 ppm 400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
Heptane	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	85 ppm 350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	400 ppm	US. ACGIH Threshold Limit Values (02 2012)
	STEL	500 ppm	US. ACGIH Threshold Limit Values (02 2012)
	Ceil_Time	440 ppm 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Titanium oxide (TiO2)	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2008)
Titanium oxide (TiO2) - Total dust.	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Titanium oxide (TiO2) - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium oxide (TiO2) - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Benzene, methyl-	STEL	150 ppm 560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)



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	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA	200 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)
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Benzene	REL	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	25 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	0.5 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	2.5 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	OSHA_AC T	0.5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	TWA	10 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	50 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	STEL	5 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	STEL	1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Benzene, (1-methylethyl)-	REL	50 ppm	245 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	50 ppm		US. ACGIH Threshold Limit Values (2008)
	PEL	50 ppm	245 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	50 ppm	245 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1 ppm		US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2018)
Benzene, ethyl-	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (12 2010)

**Biological Limit Values** 

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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



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**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.

#### 9. Physical and chemical properties

# **Appearance**

Physical state: liquid
Form: Aerosols
Color: White

Odor:

Odor threshold:

PH:

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 (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

**Vapor pressure:** 4,826.3 - 6,205.3 hPa (20 °C)

Vapor density:No data available.Density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water:

Solubility (other):

Partition coefficient (n-octanol/water):

No data available.

No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.



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# 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.

#### 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

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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): > 2,000 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), LC 50: > 5 mg/l hydrotreated light 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

Naphtha (petroleum), LC hydrotreated light LC

LOAEL (Human): 2,400 mg/m3 LC 50 (Rat): > 7,630 mg/m3

LC 50: > 5 mg/l

Solvent naphtha LC 50: 5.6 mg/l (petroleum), light aliph. LC 50: > 20 mg/l

LOAEL (Human): 4,320 mg/m3 LC 50 (Rat): > 7,630 mg/m3



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Titanium oxide (TiO2) LC 50 (Rat): > 6.82 mg/l

Repeated dose toxicity

**Product:** No data available.

Specified substance(s):

Distillates (petroleum), NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation

hydrotreated light 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 Readacross 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

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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

Solvent naphtha Assessment Non-Irritating

(petroleum), light aliph. in vivo (Rabbit): Irritating Experimental result, 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), Rabbit, 24 - 72 hrs: Not irritating

hydrotreated light

Heptane Rabbit, 24 - 72 hrs: Not irritating

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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),

Skin sensitization:, in vivo (Guinea pig): Non sensitising

hydrotreated light Heptane

Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising

Naphtha (petroleum), bydrotreated light

hydrotreated light Solvent naphtha

Skin sensitization:, in vivo (Guinea pig): Non sensitising

(petroleum), light aliph.

Titanium oxide (TiO2)

Skin sensitization:, in vivo/in vitro (Guinea pig): Non sensitising

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), May be fatal if swallowed and enters airways.

hydrotreated light



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Heptane, branched, cyclic

and linear

Heptane

Naphtha (petroleum), hydrotreated light Solvent naphtha (petroleum), light aliph. May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways. May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

Other effects: No data available.

# 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

Solvent naphtha (petroleum), light aliph.

LL 50 (Pimephales promelas, 96 h): 8.2 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): 4.5 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.5 mg/l Experimental result, Key study

Titanium oxide (TiO2) LC 50 (Daphnia

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

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Naphtha (petroleum), hydrotreated light

EC 50 (Daphnia magna): 10 mg/l Other, Key study NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

Solvent naphtha (petroleum), light aliph. 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

NOAEL (Daphnia magna): 0.17 mg/l Read-across based on grouping of Heptane

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

100 % (385.5 h) Detected in water. Experimental result, Key study Propane

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

90.35 % (28 d) Detected in water. Experimental result, Supporting study Solvent naphtha

(petroleum), light aliph. 77.05 % Detected in water. Experimental result, Supporting study

**BOD/COD Ratio** 

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

Product: No data available.

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Specified substance(s):

Heptane Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by

calculation. Kev study

Naphtha (petroleum),

hydrotreated light

Bioconcentration Factor (BCF): 10 - 2,500 Aguatic 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

Heptane, branched, cyclic

No data available. No data available.

and linear

Heptane Naphtha (petroleum), No data available.

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.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**Contaminated Packaging:** No data available.

14. Transport information

DOT

**UN Number:** UN 1950

**UN Proper Shipping Name:** Aerosols, flammable

Transport Hazard Class(es)

Class: 2.1 Label(s): Packing Group: Ш Marine Pollutant: No

**Environmental Hazards:** No Marine Pollutant Nο

Special precautions for user: Not regulated.

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**IMDG** 

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2 Label(s): -

EmS No.: F-D, S-U

Packing Group: -

Environmental Hazards: Yes Marine Pollutant No

Special precautions for user: Not regulated.

**IATA** 

UN Number: UN 1950

Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es):

Class: 2.1
Label(s): Packing Group: -

Environmental Hazards: Yes Marine Pollutant No

Special precautions for user: Not regulated.

Cargo aircraft only: Allowed.

#### 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 Ibs. 100
Heptane Ibs. 100
Benzene, methyl- Ibs. 1000
Benzene Ibs. 10
Benzene, (1-methylethyl)- Ibs. 5000
Benzene, ethyl- Ibs. 1000



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#### 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

**Reportable** 

**Chemical Identity** quar

<u>quantity</u>

**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),	10000 lbs
hydrotreated light	
Propane	10000 lbs
Heptane, branched, cyclic	10000 lbs
and linear	
Heptane	10000 lbs
Naphtha (petroleum),	10000 lbs
hydrotreated light	
Solvent naphtha	10000 lbs
(petroleum), light aliph.	
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)

Benzene, methyl
Benzene

Carcinogenic. 09 2011

Developmental toxin. 03 2008

Developmental toxin. 03 2008

Carcinogenic. 05 2011

Benzene Male reproductive toxin. 03 2008



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- -

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**

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**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

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

**Issue Date:** 11/20/2019

**Revision Information:** No data available.

Version #: 1.0

Further Information: No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.