

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Flo-Perm CF-247

Product Code

FP8045PA

Synonyms

None available.

Product Use

Solvent.

Restrictions on Use

If this product is used in combination with other products, consult the Safety Data Sheets for those products. This product is not for sale or use in the State of California.

MANUFACTURER/SUPPLIER

Vulsay Industries Ltd 35 Regan Road Brampton, Ontario, Canada L7A 1B2

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Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Hazardous Products Regulations (HPR) (SOR/2015-17)

Flammable Liquids - Category 3

Aspiration Hazard - Category 1

Acute Toxicity - Inhalation - Vapor - Category 4

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Carcinogenicity - Category 2

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (central nervous system)

GHS Label Elements

Symbol(s)







Signal Word

Danger

Material Name: Flo-Perm CF-247 SDS ID: 87018

Hazard Statement(s)

Flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Harmful if inhaled.

Causes skin irritation and serious eye irritation.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Use non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Response

In case of fire: Use carbon dioxide, regular dry chemical, regular foam, water spray. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. 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 ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Statement(s) of Unknown Acute Toxicity

Inhalation 50.7002% of the mixture consists of ingredient(s) of unknown acute toxicity.

Other hazards

None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
8052-41-3	Stoddard solvent	60-85
64742-47-8	Petroleum distillates, hydrotreated light	15-40
111-84-2	Nonane	3-4
95-63-6	Benzene, 1,2,4-trimethyl-	3-4
91-20-3	Naphthalene	<0.9
100-41-4	Ethylbenzene	<0.4

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Section 4 - FIRST AID MEASURES

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eves

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.

Ingestion

IF SWALLOWED: Aspiration hazard. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Get immediate medical attention.

Most Important Symptoms/Effects

Acute

May be fatal if swallowed and enters airways. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation.

Delayed

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Causes damage to central nervous system.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, regular dry chemical, regular foam, water spray

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Special Hazards Arising from the Chemical

Flammable liquid and vapor. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive above flash point.

Hazardous Combustion Products

Oxides of carbon

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

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Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal. All equipment used when handling the product must be grounded. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Wear suitable protective gloves and eye/face protection. 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. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep cool. Store locked up.

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See SECTION 14: TRANSPORT INFORMATION for Packing Group information.

Incompatible Materials

Strong oxidizers.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Stoddard solvent	8052-41-3
Alberta	100 ppm TWA ; 572 mg/m3 TWA
British Columbia	290 mg/m3 TWA; 580 mg/m3 STEL
Manitoba; Nova Scotia; Prince Edward Island	100 ppm TWA
New Brunswick	100 ppm TWA ; 525 mg/m3 TWA
Northwest Territories; Nunavut; Saskatchewan	100 ppm TWA; 125 ppm STEL
Ontario	525 mg/m3 TWA (140°F Flash aliphatic solvent)
Quebec	100 ppm TWAEV ; 525 mg/m3 TWAEV

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Yukon	100 ppm TWA ; 575 mg/m3 TWA 150 ppm STEL ; 720 mg/m3 STEL
ACGIH:	100 ppm TWA
Nonane	111-84-2
Alberta; New Brunswick	200 ppm TWA ; 1050 mg/m3 TWA
British Columbia; Manitoba; Nova Scotia; Ontario; Prince Edward Island	200 ppm TWA
Northwest Territories; Nunavut; Saskatchewan;	200 ppm TWA; 250 ppm STEL
Quebec	200 ppm TWAEV ; 1050 mg/m3 TWAEV
Yukon	200 ppm TWA ; 1050 mg/m3 TWA 250 ppm STEL ; 1300 mg/m3 STEL
ACGIH:	200 ppm TWA
Naphthalene	91-20-3
Alberta	10 ppm TWA; 52 mg/m3 TWA 15 ppm STEL; 79 mg/m3 STEL Substance may be readily absorbed through intact skin
British Columbia	10 ppm TWA; Skin notation
Manitoba; Nova Scotia	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route
New Brunswick	10 ppm TWA ; 52 mg/m3 TWA 15 ppm STEL ; 79 mg/m3 STEL
Northwest Territories; Nunavut	10 ppm TWA; 15 ppm STEL; Skin notation
Ontario	10 ppm TWA; Danger of cutaneous absorption
Prince Edward Island	10 ppm TWA
Quebec	10 ppm TWAEV; Skin designation
Saskatchewan	10 ppm TWA; 15 ppm STEL Potentially harmful after absorption through skin or mucous membranes
Yukon	10 ppm TWA ; 50 mg/m3 TWA 15 ppm STEL ; 75 mg/m3 STEL

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ACGIH:	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route
Ethylbenzene	100-41-4
Alberta; New Brunswick	100 ppm TWA ; 434 mg/m3 TWA 125 ppm STEL ; 543 mg/m3 STEL
British Columbia; Manitoba; Nova Scotia; Ontario; Prince Edward Island	20 ppm TWA
Northwest Territories; Nunavut; Saskatchewan	100 ppm TWA; 125 ppm STEL
Quebec	20 ppm TWAEV
Yukon	100 ppm TWA ; 435 mg/m3 TWA 125 ppm STEL ; 545 mg/m3 STEL
ACGIH:	20 ppm TWA

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Naphthalene (91-20-3)

Time: end of shift Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis (nonquantitative, nonspecific)

Ethylbenzene (100-41-4)

0.15 g/g creatinine Medium: urine Time: end of shift Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment Eye/face protection

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Respiratory Protection

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

Skin Protection/Glove Recommendations

Where skin contact is likely, wear gloves impervious to product; use of natural rubber (latex) or equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, whole body suits or other protective clothing. When product is heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing.

Protective Materials

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified

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professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, Gloves, Lab coat or apron.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless liquid	Physical State	Liquid
Odor	Mild ,petroleum	Color	Colorless.
Odor Threshold	Not available	pH	Not available
Melting Point	<-54 °C	Boiling Point	Not available
Boiling Point Range	165-204 °C	Freezing point	Not available
Evaporation Rate	0.1	Flammability (solid, gas)	Not applicable.
Autoignition Temperature	227 °C	Flash Point	47 °C
Lower Explosive Limit	1.1	Decomposition temperature	Not available
Upper Explosive Limit	6	Vapor Pressure	$1.68~\mathrm{mmHg}$ @ $20~^{\circ}\mathrm{C}$
Vapor Density (air=1)	5 (Air = 1)	Specific Gravity (water=1)	Not available
Water Solubility	(Insoluble)	Partition coefficient: n- octanol/water	Not available
Viscosity	1.05 mm2/sec 40 °C	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	0.8 at 15 °C
Physical Form	Liquid.	Molecular Weight	Not available

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize under normal temperature and pressure conditions.

Conditions to Avoid

Avoid heat, sparks or flame. Avoid contact with incompatible materials.

Incompatible Materials

strong oxidizers.

Hazardous decomposition products

Oxides of carbon.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure Inhalation

Harmful if inhaled. May cause irritation, nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, loss of coordination, lung congestion, unconsciousness.

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Skin Contact

Causes skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

May be fatal if swallowed and enters airways. May cause irritation, nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, loss of coordination, lung congestion, convulsions, unconsciousness, aspiration hazard.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Petroleum distillates, hydrotreated light (64742-47-8)

Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat >5.2 mg/L 4 h

Nonane (111-84-2)

Inhalation LC50 Rat 3200 ppm 4 h

Benzene, 1,2,4-trimethyl- (95-63-6)

Oral LD50 Rat 3280 mg/kg; Dermal LD50 Rabbit >3160 mg/kg (no deaths occurred); Inhalation LC50 Rat 18 g/m3 4 h

Naphthalene (91-20-3)

Oral LD50 Rat 1110 mg/kg; Dermal LD50 Rabbit 1120 mg/kg; Inhalation LC50 Rat >340 mg/m3 1 h

Ethylbenzene (100-41-4)

Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15400 mg/kg; Inhalation LC50 Rat 17.4 mg/L 4 h

Product Toxicity Data

Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	20 mg/L
Oral	> 2000 mg/kg

Immediate Effects

May be fatal if swallowed and enters airways. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation.

Delayed Effects

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Causes damage to central nervous system.

Irritation/Corrosivity Data

Causes skin irritation. Causes serious eye irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for product.

Component Carcinogenicity

Petroleum distillates, hydrotreated light	64742-47-8
DFG:	Category 3 (could be carcinogenic for man)
Naphthalene	91-20-3

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ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))
NTP:	Reasonably Anticipated To Be A Human Carcinogen
DFG:	Category 2 (considered to be carcinogenic for man)
OSHA:	Present
Ethylbenzene	100-41-4
Ethylbenzene ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
	A3 - Confirmed Animal Carcinogen with Unknown Relevance
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans Monograph 77 [2000] (Group 2B (possibly carcinogenic to

Suspected of causing cancer.

Germ Cell Mutagenicity

No information available for the product.

Tumorigenic Data

No information available for the product.

Reproductive Toxicity

No information available for product.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

Central nervous system

Aspiration hazard

This material is an aspiration hazard. May be fatal if swallowed and enters airways.

Medical Conditions Aggravated by Exposure

Individuals with pre-existing respiratory tract (nose, throat, and lungs) and/or skin disorders may have increased susceptibility to the effects of exposure.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

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Component Analysis - Aquatic Toxicity

Petroleum distillates, hydrotreated light	64742-47-8
Fish:	LC50 96 h Pimephales promelas 45 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 2.2 mg/L [static]; LC50 96 h Oncorhynchus mykiss 2.4 mg/L [static]
Benzene, 1,2,4- trimethyl-	95-63-6
Fish:	LC50 96 h Pimephales promelas 7.19 - 8.28 mg/L [flow-through]
Invertebrate:	EC50 48 h Daphnia magna 6.14 mg/L IUCLID
Naphthalene	91-20-3
Fish:	LC50 96 h Pimephales promelas 5.74 - 6.44 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 1.6 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 0.91 - 2.82 mg/L [static]; LC50 96 h Pimephales promelas 1.99 mg/L [static]; LC50 96 h Lepomis macrochirus 31.0265 mg/L [static]
Invertebrate:	LC50 48 h Daphnia magna 2.16 mg/L IUCLID ; EC50 48 h Daphnia magna 1.96 mg/L [Flow through] EPA ; EC50 48 h Daphnia magna 1.09 - 3.4 mg/L [Static] EPA
Ethylbenzene	100-41-4
Fish:	LC50 96 h Oncorhynchus mykiss 11 - 18 mg/L [static]; LC50 96 h Oncorhynchus mykiss 4.2 mg/L [semi-static]; LC50 96 h Pimephales promelas 7.55 - 11 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 32 mg/L [static]; LC50 96 h Pimephales promelas 9.1 - 15.6 mg/L [static]; LC50 96 h Poecilia reticulata 9.6 mg/L [static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 4.6 mg/L IUCLID ; EC50 96 h Pseudokirchneriella subcapitata >438 mg/L IUCLID ; EC50 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L [static] EPA ; EC50 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 1.8 - 2.4 mg/L IUCLID

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Other Toxicity

No additional information is available.

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Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Vulsay regarding proper recycling or disposal.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: PETROLEUM DISTILLATES, N.O.S., (Contains: Stoddard solvent, Naphthalene, 1,2,4-

TRIMETHYLBENZENE (PSEUDOCUMENE))

Hazard Class: 3 UN/NA #: UN1268 Packing Group: III Required Label(s): 3

IATA Information:

Shipping Name: PETROLEUM DISTILLATES, N.O.S., (Contains: Stoddard solvent, Naphthalene, 1,2,4-

TRIMETHYLBENZENE (PSEUDOCUMENE))

Hazard Class: 3 UN#: UN1268 Packing Group: III Required Label(s): 3

IMDG Information:

Shipping Name: PETROLEUM DISTILLATES, N.O.S., (Contains: Stoddard solvent, Naphthalene, 1,2,4-

TRIMETHYLBENZENE (PSEUDOCUMENE))

Hazard Class: 3 UN#: UN1268 Packing Group: III Required Label(s): 3

TDG Information:

Shipping Name: PETROLEUM DISTILLATES, N.O.S., (Contains: Stoddard solvent, Naphthalene, 1,2,4-

TRIMETHYLBENZENE (PSEUDOCUMENE))

Hazard Class: 3 UN#: UN1268 Packing Group: III Required Label(s): 3

International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Naphthalene	91-20-3
IBC Code:	Category X (molten)
Ethylbenzene	100-41-4

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IBC Code: Category Y

Section 15 - REGULATORY INFORMATION

Canada Regulations

CEPA - Priority Substances List

None of this product's components are on the list.

Ozone Depleting Substances

None of this product's components are on the list.

Council of Ministers of the Environment - Soil Quality Guidelines

Naphthalene	91-20-3
Residential and Parkland	(consult factsheet)
Ethylbenzene	100-41-4
Residential and Parkland	0.082 mg/kg coarse (surface (<=1.5 m), this value may be less than the common limit of detection in some jurisdictions. Free-phase formation, a circumstance deemed unacceptable by many jurisdictions, occurs when a substance exceeds its solubility limit in soil water. The concentration at which this occurs is dependent on soil texture, porosity, and aeration porosity. Under the assumptions used for this guideline, at concentrations greater than 430 mg/kg soil, formation of free-phase Ethylbenzene will likely occur); 0.018 mg/kg fine (surface (<=1.5 m), this value may be less than the common limit of detection in some jurisdictions. Free-phase formation, a circumstance deemed unacceptable by many jurisdictions, occurs when a substance exceeds its solubility limit in soil water. The concentration at which this occurs is dependent on soil texture, porosity, and aeration porosity. Under the assumptions used for this guideline, at concentrations greater than 430 mg/kg soil, formation of free-phase Ethylbenzene will likely occur); 0.082 mg/kg coarse (subsoil (>1.5 m), this value may be less than the common limit of detection in some jurisdictions. Free-phase formation, a circumstance deemed unacceptable by many jurisdictions, occurs when a substance exceeds its solubility limit in soil water. The concentration at which this occurs is dependent on soil texture, porosity, and aeration porosity. Under the assumptions used for this guideline, at concentrations greater than 430 mg/kg soil, formation of free-phase Ethylbenzene will likely occur); 0.018 mg/kg fine (subsoil (>1.5 m), this value may be less than the common limit of detection in some jurisdictions. Free-phase formation, a circumstance deemed unacceptable by many jurisdictions, occurs when a substance exceeds its solubility limit in soil water. The concentration at which this occurs is dependent on soil texture, porosity, and aeration porosity. Under the assumptions used for this guideline, at concentrations greater than 430 mg/kg soil, formation of free-phase E

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Council of Ministers of the Environment - Water Quality Guidelines

Naphthalene	91-20-3
Marine Aquatic Life	1.4 μg/L
Ethylbenzene	100-41-4

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Nonane	111-84-2				
TSCA 12b:	Section 4, 1 % de minimis concentration				
Benzene, 1,2,4-trimethyl-	95-63-6				
SARA 313:	1 % de minimis concentration				
Naphthalene	91-20-3				
SARA 313:	0.1 % de minimis concentration				
CERCLA:	100 lb final RQ; 45.4 kg final RQ				
Ethylbenzene	100-41-4				
SARA 313:	0.1 % de minimis concentration				
CERCLA:	1000 lb final RQ ; 454 kg final RQ				

Produits chimiques soumis aux exigences de déclaration de la section 313 du titre III de la loi *américaine Superfund Amendments and Reauthorization Act* (SARA) de 1986 et de la partie 372 du règlement américain 40 CFR.

N°CAS	Nom	Pourcentage en masse
95-63-6	Benzene, 1,2,4-trimethyl-	3-4
91-20-3	Naphthalene	<0.9
100-41-4	Ethylbenzene	<0.4

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories:

Flammable; Carcinogenicity; Acute toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

<u> </u>	1					
Component	CAS	CA	MA	MN	NJ	PA
Stoddard solvent	8052-41-3	Yes	Yes	Yes	Yes	Yes
Nonane	111-84-2	Yes	Yes	Yes	Yes	Yes
Benzene, 1,2,4-trimethyl-	95-63-6	No	Yes	Yes	Yes	Yes

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Naphthalene	91-20-3	Yes	Yes	Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes	Yes	Yes	Yes	Yes

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This product is not for sale or use in the State of California.

Component Analysis - Inventory

Stoddard solvent (8052-41-3)

US	CA	AU	C	N	EU	J	JP - ENCS	JP - ISHL	,	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Y	es	EI	N	No	No		Yes	No
KR -	KR - REACH CCA			M.	X	NZ	PH	TH- TECI	TW	VN (Draft)	
No	No			Υe	es	Yes	Yes	Yes	Yes	Yes	

Petroleum distillates, hydrotreated light (64742-47-8)

US	CA	AU	CN	E	U	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2		
Yes	DSL	Yes	Yes	E	IN	No	No		No		Yes	No
KR - REACH CCA			\]	MX	NZ	PH	TH- TECI	TW	VN (Draft)			
No				Yes	Yes	Yes	No	Yes	Yes			

Nonane (111-84-2)

US	CA	AU	CN	E	U	JP - ENCS	JP - ISHL	,	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	s E	IN	Yes	Yes		Yes	No
KR - REACH CCA		\	MX	NZ	РН	TH- TECI	TW	VN (Draft)		
No				Yes	Yes	Yes	Yes	Yes	Yes	

Benzene, 1,2,4-trimethyl- (95-63-6)

DCIIZC	110, 1,2,	7-ti iiii	ciny	/I- (<i>)</i> .)- 03-0)							
US	CA	AU	CN	I E	U	JP - ENCS	JP - ISHL		JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Ye	es E	IN	Yes	Yes	Yes		No		
KR - REACH CCA			1	MX	NZ	PH	TH- TECI	TW	VN (Draft)			
No				Yes	Yes	Yes	No	Yes	Yes			

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Naphthalene (91-20-3)

US	CA	AU	CN	E	U	JP - ENCS	JP - ISHL	r	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	s E	IN	Yes	Yes		Yes	No
KR - REACH CCA			\	MX	NZ	PH	TH- TECI	TW	VN (Draft)	
No				Yes	Yes	Yes	Yes	Yes	Yes	

Ethylbenzene (100-41-4)

US	CA	AU	CN	I E	U	JP - ISHL		,	KR KECI - Annex 1	KR KECI - Annex 2		
Yes	DSL	Yes	Ye	es E	IN	Yes	Yes		Yes		Yes	No
KR - REACH CCA			A	MX	NZ	PH	TH- TECI	TW	VN (Draft)			
No	No			Yes	Yes	Yes	Yes	Yes	Yes			

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 2 Fire: 2 Instability: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Issue Date

Addition to Section 15.

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA -California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC -European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F -Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG -International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID -International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; KR REACH CCA - Korea Registration and Evaluation of Chemical Substances Chemical Control Act; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIstsTM - ChemADVISOR's Regulatory Database; MAK -

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Material Name: Flo-Perm CF-247 SDS ID: 87018

Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne-Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TH-TECI - Thailand - FDA Existing Chemicals Inventory (TECI); TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Vulsay assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplied to the user.

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