

Section 1. Product and Company Identification

Product Name	: Skye Chem WD-RTU
Supplier	: Skye Petroleum Inc. 13515 Southwest Freeway, Suite 207 Sugar Land, TX 77478 United States For product information: 1-281-265-1199
Material Uses	: Oil Production Treatment
Validation Date	: January 6, 2016
Revision/Version Number	: 3
Supersedes	: Version 2 (March 6, 2013)
Responsible Name	: Gary Merritt – 281-265-1199
In Case of Emergency	: Skye Petroleum 24 hours 281-265-1199

2. Hazards Identification

Classification of Substance or Mixture	: Flammable Liquid: Category 2 Acute Toxicity (Oral): Category 3 Acute Toxicity (Dermal): Category 5 Acute Toxicity (Inhalation): Category 4 Skin Corrosion/Irritation: Category 2 Eye Damage/Irritation: Category 1 Germ Cell Mutagenicity: Category 1B Carcinogenicity: Category 2 Reproductive Toxicity: Category 2 Specific Target Organ Toxicity – Single Exposure: Category 3 (respiratory) Specific Target Organ Toxicity – Single Exposure: Category 3 (narcotic) Specific Target Organ Toxicity – Repeated Exposure: Category 2 Aspiration Hazard: Category 1 Aquatic Toxicity (Acute): Category 2
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Pictograms



Signal Words : Danger

Physical Hazard Statements : Highly Flammable Liquid and Vapour
May be corrosive to metals

Health Hazard Statements : Toxic if swallowed
May be harmful in contact with skin
Causes skin irritation
Causes serious eye damage
Harmful if inhaled
May cause genetic defects
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
May cause respiratory Irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways

Environmental Hazard Statements : Toxic to Aquatic Life

Precautionary Statements

Prevention : Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat/spark/open flame/hot surfaces. No smoking.
Keep container tightly closed
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting and equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment

Response : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water and soap. Specific treatment (see Section 4 - First Aid Measures on this label). If skin irritation occurs: Get medical advice attention. Take off contaminated clothing and wash it before reuse. Call a POISON CONTROL CENTER or physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CONTROL CENTER or physician. Specific treatment (see Section 4 - First Aid Measures on this label). Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CONTROL CENTER or physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CONTROL CENTER or physician.

IF exposed or concerned: Get medical advice/attention.
 Get Medical advice/attention if you feel unwell.
 In case of fire: Use Water Spray or Dry Chemical to extinguish.

Storage : Store locked up.
 Store in a well-ventilated place. Keep container tightly closed. Keep Cool.

Disposal : Dispose of contents/containers in accordance with federal, provincial/state or local regulations.

WHMIS Hazards

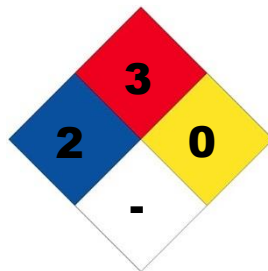
Classification : Class B2 - Flammable Liquid
 Class D1.B - Immediate and Seriously Toxic Effects
 Class D2.B - Other Toxic Effects
 Class E - Corrosive Material

Label Elements :



Other Hazards : None

NFPA Hazards



3. Composition/Information on ingredients

<u>Chemical Identity</u>	<u>Synonyms</u>	<u>CAS number</u>	<u>EC number (REACH)</u>	<u>Wt. %</u>
Light aliphatic solvent naphtha	Solvent Naphtha (petroleum); light gasoline; rubber solvent	64742-89-8	232-453-7	70-100%
Xylenes	Xylene, mixture of isomers	1330-20-7	215-535-7	1-5%
Methyl Isobutyl Ketone	4-methylpentan-2-one	108-10-1	203-550-1	0.5-2%
Sulfosuccinate	Docusate Sodium	577-11-7	209-406-4	0.5-2%

Phosphate Ester	-	68921-24-4	-	0.5-2%
Ethylbenzene	Ethylbenzol; Phenylethane	100-41-4	202-849-4	0.1-1%

4. First-Aid Measures

- Eye Contact** : Immediately flush with large quantities of water for at least 15 minutes. Occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Seek Medical attention at once.
- Symptoms** : Eye irritation signs and symptoms may include a burning sensation, redness, swelling and/or blurred vision.
- Skin contact** : Immediately flush with water for at least 15 minutes. IF clothing, shoes and/or jewellery come in contact with the product, they should be removed and laundered before reuse.
- Symptoms** : Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.
- Ingestion** : Rinse mouth thoroughly with water. Immediately drink large quantities of water. Do Not induce vomiting. Seek Medical attention at once. Do not give anything by mouth if the victim is unconscious or if having convulsions. IF vomiting occurs naturally have the victim lean forward to reduce the risk of aspiration.
- Symptoms** : Ingestion may cause malaise and/or vomiting. Swallowing or vomiting of the material may cause aspiration of the material into the lungs. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty breathing, chest congestion, shortness of breath, and/or fever.
- Inhalation** : Remove to fresh air. If a person experiences nausea, headache or Dizziness, person should stop working immediately and move to fresh air until symptoms disappear. If breathing is difficult administer oxygen, keep the person warm and at rest. Seek Medical Attention. In the event that an individual inhales enough vapour to lose consciousness, that person should be removed to fresh air immediately and a physician called at once. Ensure adequate ventilation and provide respiratory protection before the person returns to work.
- Symptoms** : Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty breathing, chest congestion, shortness of breath, and/or fever.
- Notes to Physician** : Monitor and treat symptoms. No special treatment required.

5. Fire-Fighting Measures

Flammability	: Highly Flammable Liquid and Vapour
Suitable Extinguishing Media	: Foam or Water Spray. CO ₂ or Dry Chemical
Un-suitable Extinguishing Media	: None
Sensitivity to Static Discharge	: Not Established
Sensitivity to Impact	: Not Established
Specific Hazards during fire fighting	: Flash Point = 10°C (50°F) Fumes, smoke and Carbon Monoxide
Special Protective Equipment for fire-fighters	: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Hazardous Combustion Products	: Oxides of Carbon, Sulfur and Nitrogen. Carbon Monoxide. Carbon Dioxide.
Further Information	: Isolate the danger area. Use water to cool fire exposed containers.

6. Accidental Release Measures

Personal Precautions	: NO action should be taken involving personal risk or without suitable training. Evacuate the surrounding area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate protective equipment
Environmental Precautions	: Avoid Dispersal of the material and runoff and contact with soil, waterways, drains and sewers.
Methods for Clean up	
Small Spill	: Stop Leak if without risk. Move containers from the spill area. Absorb with a suitable inert material. Dispose via a licenced waste disposal contractor.
Large Spill	: Stop Leak if without risk. Move containers from the spill area. Dike spill area and do not allow product to reach sewage systems or surface or ground water. Notify reportable spill to authorities (see section 12 for environmental risks and 13 for disposal information). Contain and collect spillage with a non-combustible absorbent material and place in container for disposal according to local regulations (see section 13). Dispose via licenced waste disposal contractors. Contaminated absorbent material may pose the same hazards as the spilled product.

7. Handling and Storage

Precautions for safe Handling	: Put on appropriate protective equipment. (See section 8). Eating Drinking and smoking should be prohibited in areas where this material is handled stored or processed. Workers should wash hands and face before eating drinking and smoking. Do not get on eyes skin or clothing. Do not ingest.
Conditions for safe Storage, including incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in a Dry cool place away from incompatible materials. Keep container tightly closed and sealed until use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls and personal protection

Exposure Guidelines

If this product contains ingredients with exposure limits, workplace atmosphere or biological monitoring may be required to determine the effectiveness of ventilation or other controls and or necessitate the use of respiratory protective equipment

Component	CAS #	List	Type	Value
Light aliphatic solvent naphtha	64742-89-8	OSHA	TWA Z-1	500 ppm 2,000 mg/m ³
		OSHA	TWA P0	400 ppm 1,000 mg/m ³
Xylenes	1330-20-7	ACGIH	TWA TLV	100 ppm
		ACGIH	STEL TLV	150 ppm
		ACGIH	BEI	1,500 mg/g (urine)
Methyl Isobutyl Ketone	108-10-1	OSHA	TWA Z-1	100 ppm 435 mg/m ³
		ACGIH	TWA TLV	50 ppm 205 mg/m ³
		ACGIH	STEL TLV	75 ppm
		ACGIH	BEI	1 mg/L (urine)
		OSHA	TWA Z-1	50 ppm 205 mg/m ³
		OSHA	STEL Z-1	75 ppm 300 mg/m ³
Ethylbenzene	100-41-4	NIOSH	TWA	50 ppm 205 mg/m ³
		NIOSH	STEL	75 ppm 300 mg/m ³
		ACGIH	TWA	20 ppm
		ACGIH	STEL	125 ppm
Sulfosuccinate	577-11-7	ACGIH	BEI	0.7 mg/g (urine)
		NIOSH	TWA REL	100 ppm 435 mg/m ³
		NIOSH	ST REL	125 ppm 545 mg/m ³
		OSHA	TWA Z-1	100 ppm 435 mg/m ³
		OSHA	TWA P0	100 ppm 435 mg/m ³
		OSHA	STEL P0	125 ppm 545 mg/m ³
Phosphate Ester	68921-24-4	ACGIH	TWA TLV	1 mg/m ³

Recommended monitoring procedures

Engineering Measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne contaminants below any recommended statutory limits.

Personal Protection

Respiratory : If risk assessment indicates it is necessary, use a properly fitted, air purifying respirator complying with an approved standard. Respirator selection must be based on the known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands : Use chemically resistant gloves made of neoprene, nitrile or natural rubber.

Eyes : Wear chemical safety goggles. When transferring the material wear a face shield in addition to the safety goggles.

Skin : Impervious clothing, rubber aprons, PVC clothing and plastic hard hats should be used when necessary to prevent skin contact.

Footwear : Chemically resistant boots.

Work/Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, drinking or smoking and at the end of the work period. Ensure that eye wash stations and safety showers are close to the workstation location. Take off contaminated clothes and wash before reuse.

NFPA Pictograms :



9. Physical and Chemical Properties

Physical State	: Liquid
Color	: Clear
Odour	: Aromatic
Odour Threshold	: Not Established
pH	: Not Applicable
Boiling Point/Range	: 128-145°C (263-293°F)
Initial boiling	: 116°C (242°F)
Melting/Freezing Point	: Not Established
Flash Point	: 10°C (50°F)
Auto-ignition Temperature	: 241-320°C (466-608°F) based on data from Light aliphatic solvent naphtha
Flammable limits	: 0.9-7.5
Upper Explosive Limit	: 7.5%
Lower Explosive Limit	: 0.9%
Vapour Pressure	: 11.0 kPa (1.60 psi) @ 20°C (68°F)
Evaporation Rate	: Not Established

Vapour Density (air = 1)	: 3.9
VOC	: Light Aliphatic Solvent Naphtha, Xylene, Ethylbenzene, Methyl Isobutyl Ketone
Relative Density (water = 1)	: 0.74
Density	: 0.74 mg/L @ 15.5°C (60°F)
Viscosity	: Not Established
Solubility (in water)	: Partially soluble
Partition Coefficient	: Not Established
Pour Point	: Not Established
Decomposition Temperature	: Not Established

10. Stability and Reactivity

Reactivity	: Stable under normal conditions
Chemical Stability	: Stable
Possibility of hazardous reactions	: Strong Oxidizing agents. Concentrated acids. Strong acids and bases. Molten Sulfur.
Hazardous polymerization	: Does not occur
Conditions to avoid	: Temperatures above ambient
Incompatible Materials	: Strong oxidizing agents, concentrated nitric and sulfuric acids, halogens and molten sulfur.
Hazardous Products of Decomposition	: Oxides of Carbon, Sulfur and Nitrogen. Carbon Monoxide. Carbon Dioxide.

11. Toxicological Information

Acute Toxicity

Product or ingredient name	Result	Species	Dose	Exposure
Light aliphatic solvent naphtha	LD ₅₀ Oral	Rat	>5,000 mg/kg	-
	LD ₅₀ Dermal	Rabbit	>5,000 mg/kg	-
	LC ₅₀ Inhalation	Rat	11 mg/L	4 hour (vapour)
Xylenes	LD ₅₀ Oral	Rat	4,300 mg/kg	-
	LD ₅₀ Dermal	Rabbit	>2,000 mg/kg	-
	LC ₅₀ Inhalation	Rat	8.2-16.4 mg/m ³	4 hour (vapour)
Methyl Isobutyl Ketone	LD ₅₀ Oral	Rat	2,080 mg/kg	-
	LD ₅₀ Dermal	Rabbit	>16,000 mg/kg	-
	LC ₅₀ Inhalation	Rat	8.2-16.4 mg/m ³	4 hour (vapour)
Ethylbenzene	LD ₅₀ Oral	Rat	3,500 mg/kg	-
	LD ₅₀ Dermal	Rabbit	15,433 mg/kg	-

Sulfosuccinate	LD ₅₀ Oral	Rat	>3,000 mg/kg	-
	LD ₅₀ Dermal	Rabbit	>10,000 mg/kg	-
	LC ₅₀ Inhalation	Rat	>2,000 mg/m ³	-
Phosphate Ester	LD ₅₀ Oral	Rat	3.5 mg/kg	-
	LD ₅₀ Dermal	Rabbit	>2,500 mg/kg	-

Carcinogenicity	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Light aliphatic solvent naphtha	-	-	-	-	-	-
Xylene	-	3	-	-	-	-
Methyl Isobutyl Ketone	-	2B	-	-	-	-
Ethylbenzene	-	2B	-	-	-	-
Sulfosuccinate	-	-	-	-	-	-
Phosphate Ester	-	-	-	-	-	-

- Irritation** : Causes mild skin irritation and serious eye irritation
- Mutagenicity** : Light aliphatic solvent naphtha – positive test results from *in vivo* heritable germ cell mutagenicity tests in mammals.
- Toxicity for reproduction** : Light aliphatic solvent naphtha – Some evidence of adverse effects on sexual function and fertility, and/or development, based on animal experiments.
- Specific Target Organ Toxicity**
- Single Exposure** : May cause dizziness or drowsiness. May cause respiratory irritation.
 - Repeated Exposure** : May cause damage to organs through prolonged or repeated exposure: Kidneys,
- Aspiration Hazard** : May be fatal if swallowed and enters airways.

12. Ecological Information

Aquatic Ecotoxicity : Toxic to Aquatic Life

Product or ingredient name	Result	Species	Dose	Exposure
Light aliphatic solvent naphtha	LL ₅₀	Fish	8.2 mg/L	96 hour
	EL ₅₀	Daphnia Magna	4.5 mg/L	48 hour
	EL ₅₀	Green Algae	3.7 mg/L	96 hour
Xylene	No relevant data available			


Methyl Isobutyl Ketone	LC ₀	Leuciscus idus melanotus	480 mg/L	48 hour
	EC ₅₀	Daphnia Magna	1,550-3,623 mg/L	24 hour
	EC ₅₀	Green Algae	980-2,000 mg/L	48 hour
Ethylbenzene	LC ₅₀	Menidia menidia	5.1 mg/L	96 hour
	EC ₅₀ (static)	Daphnia magna	1.8-2.4 mg/L	48 hour
	EC ₅₀ (static)	Skeletonema costatum	4.9 mg/L	72 hour
Sulfosuccinate	LC ₅₀	Danio rerio	49 mg/L	96 hour
	EC ₅₀ (static)	Daphnia Magna	10.3 mg/L	48 hour
	EC ₅₀ (static)	Green Algae	39.3 mg/L	72 hour
	Growth Inhibition	Pseudomonas putida	164 mg/L	16 hour
Phosphate Ester	LC ₅₀	Fish	189 mg/L	96 hour
	LC ₅₀	Daphnia	111 mg/L	48 hour
	EC ₅₀	Algae	94 mg/L	78 hour





Terrestrial Ecotoxicity	:	Sulfosuccinate – Growth Inhibition (<i>P. putida</i>) 164 mg/L (16 hour)
Biodegradability	:	No relevant data available
Bioaccumulation potential	:	No relevant data available
Mobility in soil	:	No relevant data available
Other Information	:	None

13. Disposal Considerations

Waste Disposal Methods	:	Dispose in accordance to with federal, provincial or local regulations.
Safe Handling Procedures	:	Put on appropriate protective equipment. (See section 8). Eating Drinking and smoking should be prohibited in areas where this material is handled stored or processed. Workers should wash hands and face before eating drinking and smoking. Do not get on eyes skin or clothing. Do not ingest.
Disposal of contaminated packaging	:	Empty containers should be recycled or disposed through an approved waste management facility.

14. Transport Information

Regulatory Information	UN Number	Proper shipping name	Hazard Classes	Packing Group	Label	Additional information
DOT	1268	Petroleum Distillates, N.O.S. (Contains Solvent Naphtha (Petroleum), Light Aliphatic)	3	II		-

TDG	1268	Petroleum Distillates, N.O.S. (Contains Solvent Naphtha (Petroleum), Light Aliphatic)	3	II		-
IMDG	1268	Petroleum Distillates, N.O.S. (Contains Solvent Naphtha (Petroleum), Light Aliphatic)	3	II		-
IATA-DGR Class	1268	Petroleum Distillates, N.O.S. (Contains Solvent Naphtha (Petroleum), Light Aliphatic)	3	II		-
CFR	1268	Petroleum Distillates, N.O.S. (Contains Solvent Naphtha (Petroleum), Light Aliphatic)	3	II		-

- Environmental Hazards** : Avoid Dispersal of the material and runoff and contact with soil, waterways, drains and sewers.
- Transport in Bulk** : Use appropriate containment to avoid environmental contamination.
- Special Precautions** : None

15. Regulatory Information

- GHS Hazards** : Flam – 2; Acute Tox. (Oral) – 3; Acute Tox. (Dermal) – 5; Acute Tox. (Inhal.) – 4; Skin Corr./Irrit. – 2; Eye Dam./Irrit. - 1; Mutagen - 1B; Carcinogen – 2; Reproductive – 2; STOT-SE – 3 (resp.); STOT-SE – 3 (narc.); STOT-RE – 2; Asp. – 1; Aq. Tox. (Acute) – 2
- WHMIS Hazards** : B3, D1B, D2B, E
- Canada CEPA (DSL)** : All ingredients are on the Canadian Domestic Substances list
- EU CLP (REACH) Hazards** : Flam – 2; Acute Tox. (Oral) – 3; Acute Tox. (Inhal.) – 4; Skin Corr./Irrit. – 2; Eye Dam./Irrit. - 1; Mutagen - 1B; Carcinogen – 2; Reproductive – 2; STOT-SE – 3 (resp.); STOT-SE – 3 (neuro.); STOT-RE – 2; Asp. – 1
- TSCA Status** : TSCA 8b
- SARA 311/312 Hazards** : Fire Hazard
Chronic Health Hazard
Acute Health Hazard

SARA 313

: The following components are subject to reporting levels established by SARA Title III, Section 313

100-41-4	Ethylbenzene	0.1-1%
1330-0-7	Xylene	0.5-2%
108-10-1	Methyl Isobutyl Ketone	0.5-2%
123-91-1	1,4-Dioxane	<0.01%

US Federal Regulations

: Massachusetts Right-to-Know: Ethylbenzene, Xylene, Methyl Isobutyl Ketone, Phosphoric Acid, Docusate sodium
Pennsylvania Right-to-Know: Ethylbenzene, Xylene, Methyl Isobutyl Ketone, Phosphoric Acid, Docusate sodium
New Jersey Right-to-Know: Ethylbenzene, Xylene, Methyl Isobutyl Ketone, Docusate sodium
Rhode Island Right-to-Know: Phosphoric Acid
California Prop. 65 Components: WARNING! This product contains a chemical known to the State of California to cause cancer

100-41-4	Ethylbenzene
108-10-1	Methyl Isobutyl Ketone
75-21-8	Ethylene Oxide
123-91-1	1,4-dioxane

16. Other Information

**** SKYE PETROLEUM, INC. EXPRESSLY DISCLAIMS ALL EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE PRODUCT PROVIDED.****

The information is provided without warranty, express or implied, and is accurate to the best of the knowledge of Skye Petroleum, Inc. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The data on this sheet refers only to the specific material designated herein. Skye Petroleum, Inc. assumes no legal responsibility for use or reliance upon these data.