



Material Safety Data Sheet

Material Name: RGO PROCESS STREAM

ID: 820161

*** Section 1 - Chemical Product and Company Identification ***

Product Code

Not available.

Product Use: If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

Synonyms

Condensable Overheads

Safety-Kleen Systems, Inc.
2600 North Central Expressway
Suite 400
Richardson, TX 75080

Phone: 1-800-669-5740

Emergency # 1-800-468-1760

Issue Date

New MSDS: 09/04/2013

Original Issue Date

New MSDS.

PREPARED BY: Product MSDS Coordinator APPROVED BY: MSDS Task Force

*** Section 2 - Hazardous Identification ***

EMERGENCY OVERVIEW

Appearance

Light brown liquid, petroleum odor

Signal Word

DANGER!

Physical Hazards

Combustible liquid and vapor.

Health Hazards

May cause serious eye irritation.

May cause skin irritation.

POTENTIAL HEALTH EFFECTS

Inhalation (Breathing)

High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). May cause difficulty breathing.

Eyes

May cause serious eye irritation.

Skin

May cause skin irritation. Prolonged or repeated contact may cause redness, burning, dermatitis, drying or cracking.

Ingestion (Swallowing)

Ingestion may cause irritation, nausea, pain, vomiting, and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

Medical Conditions Aggravated by Exposure

Individuals with pre-existing cardiovascular, kidneys, liver, respiratory tract (nose, throat, and lungs), central nervous system, blood, and eye and/or skin disorders may have increased susceptibility to the effects of exposure. Contact with skin may aggravate pre-existing dermatitis.

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Chronic

Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Prolonged or repeated exposure may cause cancer and reproductive toxicity. Prolonged or repeated exposure may cause nervous system and respiratory system damage. Exposure to high oil mist concentrations may lead to oil pneumonia.

Cancer Information

Carcinogen Category 2

For more information, see **SECTION 11: CARCINOGENICITY**.

Environmental Hazards

Toxic to aquatic life with long lasting effects.

*** Section 3 - Composition / Information on Ingredients ***

CAS	Component	Percent
8006-61-9	Gasoline	0-98
7732-18-5	Water	0-10
100-41-4	Ethyl benzene	0-1
1330-20-7	Xylenes (o-, m-, p- isomers)	0-1
7783-06-4	Hydrogen sulfide	<1
108-88-3	Toluene	0-1

*** Section 4 - First Aid Measures ***

Inhalation (Breathing)

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

Eyes

If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

Skin

Remove affected clothing and shoes. **DO NOT USE GASOLINE, THINNERS, OR SOLVENTS TO REMOVE PRODUCTE FROM SKIN.** Wipe material from skin and wash thoroughly with soap and water. If necessary, use a waterless skin cleanser. Get medical attention if irritation or pain develops or persists. Wash contaminated clothing before reuse. Discard any shoes or clothing items that cannot be decontaminated.

Ingestion (Swallowing)

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. **DO NOT INDUCE VOMITING.** If vomiting occurs, keep head lower than hips to prevent aspiration.

Notes to Physicians

Treat symptomatically and supportively. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel.

*** Section 5 - Fire Fighting Measures ***

Fire and Explosion Hazards

Moderate fire hazard.

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Hazardous Combustion Products

Decomposition and combustion materials may be toxic., Burning may produce carbon monoxide, hydrogen sulfide, nitrogen oxides, and other toxic materials.

Conditions of Flammability

Heat, sparks or flame.

Extinguishing Media

Carbon dioxide, regular foam, regular dry chemical

Protective Equipment For Firefighting

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Fire Fighting Equipment/Instructions

Move container from fire area if it can be done without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Heated containers may rupture, explode, or be thrown into the air. Keep unnecessary people away, isolate hazard area and deny entry. Empty containers may retain product residue including flammable/explosive vapors. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Keep storage containers cool with water spray. Do not use high-pressure water streams.

* * * Section 6 - Accidental Release Measures * * *

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.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION**.

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

Shipping and Storing

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.

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*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

Component Exposure Limits

Ethyl benzene (100-41-4)

ACGIH: 20 ppm TWA
OSHA Final: 100 ppm TWA; 435 mg/m3 TWA
OSHA Vacated: 100 ppm TWA; 435 mg/m3 TWA
125 ppm STEL; 545 mg/m3 STEL
NIOSH: 100 ppm TWA; 435 mg/m3 TWA
125 ppm STEL; 545 mg/m3 STEL

Hydrogen sulfide (7783-06-4)

ACGIH: 1 ppm TWA
5 ppm STEL
OSHA Final: 20 ppm Ceiling
OSHA Vacated: 10 ppm TWA; 14 mg/m3 TWA
15 ppm STEL; 21 mg/m3 STEL
NIOSH: 10 ppm Ceiling (10 min); 15 mg/m3 Ceiling (10 min)

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: 100 ppm TWA
150 ppm STEL
OSHA Final: 100 ppm TWA; 435 mg/m3 TWA
OSHA Vacated: 100 ppm TWA; 435 mg/m3 TWA
150 ppm STEL; 655 mg/m3 STEL

Toluene (108-88-3)

ACGIH: 20 ppm TWA
OSHA Final: 200 ppm TWA
300 ppm Ceiling
OSHA Vacated: 100 ppm TWA; 375 mg/m3 TWA
150 ppm STEL; 560 mg/m3 STEL
NIOSH: 100 ppm TWA; 375 mg/m3 TWA
150 ppm STEL; 560 mg/m3 STEL

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. Ensure compliance with applicable exposure limits.

Personal Protective Equipment: Respiratory

Use an approved respirator if exposure limits are exceeded or if irritation develops or persists.

Personal Protective Equipment: Eyes/Face

Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

Personal Protective Equipment: Skin

Wear appropriate chemical resistant gloves. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

Personal Protective Equipment: Personal Hygiene

Always use good hygiene measures. Wash thoroughly after skin contact, before eating, drinking, chewing gum, using tobacco products or using restrooms. Contaminated clothing should be removed and laundered before reuse.

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Other Personal Protective Equipment

Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

*** Section 9 - Physical & Chemical Properties ***

Appearance/Odor :	light brown liquid petroleum odor	pH:	Not available
Boiling Point:	325 to 630 F	Odor Threshold:	Not available
Solubility (H2O):	Not available	Melting Point:	Not available
Density:	Not available	Specific Gravity:	Not available
Evaporation Rate:	Not available	Octanol/H2O Coeff.:	Not available
LFL:	Not available	Auto Ignition Temperature:	Not available
UFL:	Not available	Flash Point:	> 120 F Cleveland Open Cup
Vapor Pressure:	Not available	Viscosity:	1.32 cSt @ 212 F
Decomposition Temperature:	Not available	Vapor Density:	Not available

Physical Properties: Additional Information

No information is available.

*** Section 10 - Chemical Stability & Reactivity Information ***

Stability

Stable at normal temperatures and pressure.

Incompatibility

Strong oxidizing materials, chlorates, nitrates, peroxides

Polymerization

Will not polymerize under normal temperature and pressure conditions.

Hazardous Decomposition Products

None under normal temperatures and pressures., Section 5 - Fire-Fighting Measures

Conditions To Avoid

Avoid heat, flames, sparks and other sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, or grind containers.

*** Section 11 - Toxicological Information ***

Toxicity Data

Component Analysis - LD50/LC50

Gasoline (8006-61-9)

Inhalation LC50 Rat 300 g/m³ 5 min

Ethyl benzene (100-41-4)

Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15354 mg/kg

Xylenes (o-, m-, p- isomers) (1330-20-7)

Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg

Acute Effects

High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). May cause difficulty breathing. May cause irritation of eyes and skin. Ingestion may cause irritation, nausea, pain, vomiting, and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possible death. .

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Repeated Dose Effects

Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis)., Exposure to high oil mist concentrations may lead to oil pneumonia. Prolonged or repeated exposure may cause cancer and reproductive toxicity. Causes damage to nervous system and respiratory system through prolonged or repeated exposure. May cause damage to blood through prolonged or repeated exposure.

Component Carcinogenicity

Ethyl benzene (100-41-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: Present (select carcinogen)

IARC: Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Target Organ Effects

May cause damage to kidneys, liver, lungs, cardiovascular system, central nervous system, and respiratory system., May cause drowsiness and dizziness, Causes damage to nervous system and respiratory system through prolonged or repeated exposure., May cause damage to blood through prolonged or repeated exposure.

Sensitization

Based on best current information, there is no known human sensitization associated with this product.

Mutagenicity

Available data characterizes this substance as mutagenic.

Reproductive Toxicity

Available data characterizes components of this product as reproductive hazards.

Teratogenicity

No information available for the product.

Toxicologically Synergistic Products

No information available for the product.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Gasoline (8006-61-9)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Oncorhynchus mykiss	56 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	4700 mg/L	

Ethyl benzene (100-41-4)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Oncorhynchus mykiss	11.0 - 18.0 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	4.2 mg/L [semi-static]	
96 Hr LC50 Pimephales promelas	7.55 - 11 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	32 mg/L [static]	
96 Hr LC50 Pimephales promelas	9.1 - 15.6 mg/L [static]	
96 Hr LC50 Poecilia reticulata	9.6 mg/L [static]	
72 Hr EC50 Pseudokirchneriella subcapitata	4.6 mg/L	

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96 Hr EC50 Pseudokirchneriella subcapitata	>438 mg/L
72 Hr EC50 Pseudokirchneriella subcapitata	2.6 - 11.3 mg/L [static]
96 Hr EC50 Pseudokirchneriella subcapitata	1.7 - 7.6 mg/L [static]
48 Hr EC50 Daphnia magna	1.8 - 2.4 mg/L

Hydrogen sulfide (7783-06-4)

Duration/Test/Species

96 Hr LC50 Lepomis macrochirus	0.0448 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	0.016 mg/L [flow-through]

Concentration/Conditions

Notes

Xylenes (o-, m-, p- isomers) (1330-20-7)

Duration/Test/Species

96 Hr LC50 Pimephales promelas	13.4 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	2.661 - 4.093 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	13.5 - 17.3 mg/L
96 Hr LC50 Lepomis macrochirus	13.1 - 16.5 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	19 mg/L
96 Hr LC50 Lepomis macrochirus	7.711 - 9.591 mg/L [static]
96 Hr LC50 Pimephales promelas	23.53 - 29.97 mg/L [static]
96 Hr LC50 Cyprinus carpio	780 mg/L [semi-static]
96 Hr LC50 Cyprinus carpio	>780 mg/L
96 Hr LC50 Poecilia reticulata	30.26 - 40.75 mg/L [static]
48 Hr EC50 water flea	3.82 mg/L
48 Hr LC50 Gammarus lacustris	0.6 mg/L

Concentration/Conditions

Notes

Toluene (108-88-3)

Duration/Test/Species

96 Hr LC50 Pimephales promelas	15.22 - 19.05 mg/L [flow-through]	1 day old
96 Hr LC50 Pimephales promelas	12.6 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.89 - 7.81 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	14.1 - 17.16 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.8 mg/L [semi-static]	
96 Hr LC50 Lepomis macrochirus	11.0 - 15.0 mg/L [static]	
96 Hr LC50 Oryzias latipes	54 mg/L [static]	
96 Hr LC50 Poecilia reticulata	28.2 mg/L [semi-static]	
96 Hr LC50 Poecilia reticulata	50.87 - 70.34 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	>433 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	12.5 mg/L [static]	
48 Hr EC50 Daphnia magna	5.46 - 9.83 mg/L [Static]	
48 Hr EC50 Daphnia magna	11.5 mg/L	

Concentration/Conditions

Notes

Persistence/Degradability

No data available for this product.

Bioaccumulation/Accumulation

No data available for this product.

Mobility in Environmental Media

No data available for this product.

Other Adverse Effects

No additional information available.

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*** Section 13 - Disposal Considerations ***

Disposal Instructions

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

*** Section 14 - Transportation Information ***

DOT

Shipping Name: Gasoline (mixture)
UN/NA #: UN1203 **Hazard Class:** 3 **Packing Group:** II
Required Label(s): 3

TDG

Shipping Name: Gasoline (mixture)
UN/NA #: UN1203 **Hazard Class:** 3 **Packing Group:** II
Required Label(s): 3

*** Section 15 - Regulatory Information ***

SARA Sections 311/312

This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Fire Hazard
Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard

SARA 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does contain "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B:

Hydrogen sulfide (7783-06-4) 500 lb TPQ

SARA Section 313

Component Analysis

This product contains a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Ethyl benzene (100-41-4) 0.1 % de minimis concentration
Hydrogen sulfide (7783-06-4) 1.0 % de minimis concentration
Xylenes (o-, m-, p- isomers) (1330-20-7) 1.0 % de minimis concentration
Toluene (108-88-3) 1.0 % de minimis concentration

CERCLA

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Ethyl benzene (100-41-4) 1000 lb final RQ; 454 kg final RQ
Hydrogen sulfide (7783-06-4) 100 lb final RQ; 45.4 kg final RQ
Xylenes (o-, m-, p- isomers) (1330-20-7) 100 lb final RQ; 45.4 kg final RQ
Toluene (108-88-3) 1000 lb final RQ; 454 kg final RQ

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TSCA

Component Analysis

Component	CAS #	TSCA
Gasoline	8006-61-9	Yes
Water	7732-18-5	Yes
Ethyl benzene	100-41-4	Yes
Hydrogen sulfide	7783-06-4	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes
Toluene	108-88-3	Yes

U.S. State Regulations

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

Component	CAS	MA	MN	NJ	PA	CA
Gasoline	8006-61-9	Yes	No	No	No	No
Ethyl benzene	100-41-4	Yes	Yes	Yes	Yes	Yes
Hydrogen sulfide	7783-06-4	Yes	Yes	Yes	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Canadian Regulations

Component Analysis

Component	CAS #	CAN
Gasoline	8006-61-9	DSL
Water	7732-18-5	DSL
Ethyl benzene	100-41-4	DSL
Hydrogen sulfide	7783-06-4	DSL
Xylenes (o-, m-, p- isomers)	1330-20-7	DSL
Toluene	108-88-3	DSL

Canadian WHMIS Information

WHMIS Classification: B2, D2A, D2B

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Gasoline (8006-61-9) 1 %

Ethyl benzene (100-41-4) 0.1 %

Canadian Environmental Protection Act (CEPA)

All of the components of this product are listed on, or are exempted from listing on the Canadian Domestic Substances List (DSL)

* * * Section 16 - Other Information * * *

Label/Other Information

Not available

Revision Information

New MSDS: 09/04/2013

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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, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or 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 supplier to the user.

End of Sheet 820161