

MATERIAL SAFETY DATA SHEET

MSDS 0543

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Acid Detector For POE Oils	HMIS CODES	
		Health	2
		Flammability	3
		Reactivity	0
PRODUCT CODES	45006, 45210	PPI	B
CHEMICAL FAMILY	Organic		
USE	Acid Detection Kit		
MANUFACTURER'S NAME	The RectorSeal Corporation	EMERGENCY TELEPHONE NO.	
	2601 Spenwick Drive	Chemtrec 24 Hours	
	Houston, Texas 77055 USA	(800)424-9300 USA	
		(703)527-3887 International	
DATE OF VALIDATION	August 23, 2012	TECHNICAL SERVICE TELEPHONE NO.	
		(800)231-3345 or (713)263-8001	
DATE OF PREPARATION	August 23, 2012		

Section 2 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

OSHA Hazards

Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant

Target Organs

Eyes, Kidney, Liver, Heart, Central nervous system

GHS Classification

Flammable liquids (Category 2)

Acute toxicity, Oral (Category 3)

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Dermal (Category 3)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 1)

GHS Label elements, including precautionary statements

Pictogram: Flammable, Toxic, Target Organ Toxicity

Signal Word: Danger

Hazard statement(s)

H225 - Highly flammable liquid and vapor.

H301 + H311 - Toxic if swallowed or in contact with skin

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H370 - Causes damage to organs.

Precautionary statement(s)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P280 - Wear protective gloves/ protective clothing.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P307 + P311 - IF exposed: Call a POISON CENTER or doctor/ physician.

SUMMARY OF ACUTE HAZARDS

Overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression, intoxication and collapse. It may cause irritation to the respiratory tract and to other mucous membranes.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION

Overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression, intoxication and collapse. It may cause irritation to the respiratory tract and to other mucous membranes.

EYE CONTACT

Severely irritating.

SKIN CONTACT

Frequent or prolonged contact may irritate and cause dermatitis. Can be absorbed through skin.

INGESTION

May be fatal or cause blindness if swallowed. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

SUMMARY OF CHRONIC HAZARDS

Prolonged skin contact may result in irritation and dermatitis.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

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Section 3 -- COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Methanol
PERCENTAGE BY WEIGHT: 99
CAS NUMBER: 67-56-1
EC#: 200-659-6
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Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
If on SKIN: Wash with soap and water. Remove contaminated clothing. If irritation occurs, seek medical attention.
If in EYES: Flush with large amounts of water for at least 15 minutes. Get medical attention if irritation persists.
If SWALLOWED: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
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Section 5 -- FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Foam, dry chemical, carbon dioxide or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10).

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable - low flash point. Vapors are heavier than air and may travel along ground or to low spots at considerable distance to a source of ignition resulting in potential flashback. Heat may build up pressure and rupture closed containers.
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Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Use absorbent materials to prevent footing hazard and to contain. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.
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Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames.
OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.
KEEP OUT OF REACH OF CHILDREN.
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Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT UNITS
Methanol
 ACGIH TLV 200 ppm
 OSHA PEL 200 ppm
 OSHA STEL 200 ppm

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air purifying or supplied air respirators.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: Explosion-proof equipment

MECHANICAL (GENERAL): Preferable

OTHER: N/A

PROTECTIVE GLOVES: Rubber or neoprene

EYE PROTECTION: Chemical splash goggles (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls recommended.

WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

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Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 147 F (64 C) @ 760mm Hg

SPECIFIC GRAVITY (H2O = 1): 0.79

VAPOR PRESSURE (mm Hg): <5 @ 68 F (20 C)

MELTING POINT: N/A

VAPOR DENSITY (AIR = 1): >1

EVAPORATION RATE (ETHYL ACETATE = 1): 2.5

APPEARANCE/ODOR: Clear Liquid/Sharp Odor

SOLUBILITY IN WATER: Soluble

FLASH POINT: 52 F (11 C) SETA CC

LOWER EXPLOSION LIMIT: 6%

UPPER EXPLOSION LIMIT: 36.5%

VOLATILE ORGANIC COMPOUNDS (VOC) Content
(Theoretical Percentage By Weight): 99% or (990 g/L)

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Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Heat, sparks, open flames, and strong oxidizing conditions.

INCOMPATIBILITY (MATERIALS TO AVOID): Gaseous oxygen and strong oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2 and fragmented hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

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Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

Ingredient Name

Methanol

Oral-Rat LD50:5628 mg/kg

Inhalation-Rat LC50:64,000 ppm/4H

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Section 12 -- Ecological Information

ECOLOGICAL DATA

Ingredient Name

Methanol

Food Chain Concentration Potential	N/A
WATERFOWL TOXICITY	N/A
BOD	1.12 lb/lb
AQUATIC TOXICITY	250 ppm/11 hr/goldfish/died

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Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Ignitable (D001)
Disposal Method: Incineration
RCRA classified hazardous waste. Dispose of absorbed materials and liquid waste in accordance with all local, state and federal regulations.

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Section 14 -- TRANSPORTATION INFORMATION

DOT: UN1993, Flammable Liquid N.O.S., (contains Methanol), Class 3,
PG II, Ltd Qty, ERG#128
OCEAN (IMDG): UN1993, Flammable Liquid N.O.S., (contains Methanol),
Class 3, PG II, Ltd Qty, EMS-No: F-E, S-D
AIR (IATA): UN1993, Flammable Liquid N.O.S., (contains Methanol), Class 3,
PG II, Ltd Qty, ERG#128

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Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
Ingredient Name

Methanol

SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	5,000 lb.
RCRA Code	U154

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Section 16 -- OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001