

Material Safety Data Sheet

Creation Date 12-May-2009 Revision Date 12-Feb-2013 Revision Number 2

PRODUCT AND COMPANY IDENTIFICATION

Product Name PYR REAGENT 25ml

Cat No. R21258

Synonyms No information available.

Recommended Use Laboratory chemicals

CompanyEmergency Telephone NumberRemelINFOTRAC - 24 Hour Number: 1-800-

12076 Santa Fe Drive 535-5053

Lenexa, KS 66215 United States

Outside of the United States, call 24

Telephone: 1-800-255-6730

Outside of the United States, call 24

Hour Number: 001-352-323-3500 (Call

Fax:1-800-621-8251 Collect)

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

May impair fertility. May cause harm to the unborn child. Substances known to cause developmental toxicity in humans.

May cause skin, eye, and respiratory tract irritation.

 Appearance No information available
 Physical State
 Liquid
 Odor No information available

Target Organs Blood, Reproductive System, Kidney, Liver, spleen

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eyes May cause irritation.

Skin May cause irritation. May be harmful in contact with skin.

Inhalation May cause irritation of respiratory tract. May be harmful if inhaled.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

Chronic Effects May impair fertility. May cause harm to the unborn child. May cause adverse kidney effects.

May cause adverse liver effects.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Central nervous system disorders. Preexisting eye disorders. Blood disorders. Kidney

disorders. Overexposure may cause female and male reproductive disorder(s). Skin disorders.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

TIGE THOSE						
Component	CAS-No	Weight %				
2-Methoxyethanol	109-86-4	5				

Acetic acid	64-19-7	2.5
Sodium lauryl sulfate	151-21-3	2.5
Formamide	75-12-7	2

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Not applicable

Method - No information available.

Autoignition Temperature No information available.

Explosion Limits

UpperNo data availableLowerNo data available

Substance is nonflammable; use agent most appropriate to

extinguish surrounding fire..

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products

No information available.

Sensitivity to mechanical impact
Sensitivity to static discharge
No information available.
No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA Health 1 Flammability 0 Instability 0 Physical hazards N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin,

or on clothing.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal..

Up

7. HANDLING AND STORAGE

Handling

Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Methoxyethanol	TWA: 0.1 ppm	(Vacated) TWA: 25 ppm	IDLH: 200 ppm
•	Skin	(Vacated) TWA: 80 mg/m ³	TWA: 0.1 ppm
		Skin	TWA: 0.3 mg/m ³
		TWA: 25 ppm	G
		TWA: 80 mg/m ³	
Acetic acid	TWA: 10 ppm	(Vacated) TWA: 10 ppm	IDLH: 50 ppm
	STEL: 15 ppm	(Vacated) TWA: 25 mg/m ³	TWA: 10 ppm
	• •	TWA: 10 ppm	TWA: 25 mg/m ³
		TWA: 25 mg/m ³	STEL: 15 ppm
			STEL: 37 mg/m ³
Formamide	TWA: 10 ppm	(Vacated) TWA: 20 ppm	TWA: 10 ppm
	Skin	(Vacated) TWA: 30 mg/m ³	TWA: 15 mg/m ³
		(Vacated) STEL: 30 ppm	ű
		(Vacated) STEL: 45 mg/m ³	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
2-Methoxyethanol	TWA: 5 ppm	TWA: 25 ppm	TWA: 0.1 ppm
	TWA: 16 mg/m ³	TWA: 80 mg/m ³	Skin
	Skin	STEL: 35 ppm	
		STEL: 120 mg/m ³	
Acetic acid	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm
	TWA: 25 mg/m ³	TWA: 25 mg/m ³	STEL: 15 ppm
	STEL: 15 ppm	STEL: 15 ppm	
	STEL: 37 mg/m ³	STEL: 37 mg/m ³	
Formamide	TWA: 10 ppm	TWA: 20 ppm	TWA: 10 ppm
	TWA: 18 mg/m ³	TWA: 30 mg/m ³	Skin
	Skin	STEL: 30 ppm	
		STEL: 45 mg/m ³	

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment Eye/face Protection

Skin and body protection Respiratory Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166 Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance Odor Odor Threshold Liquid

No information available No information available No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH No information available.

Vapor Pressure No information available.

Vapor Density No information available.

Viscosity No information available.

Boiling Point/Range Not applicable

Melting Point/Range No data available

Decomposition temperature No information available

Decomposition temperatureNo information available.Flash PointNot applicableEvaporation RateNo information available.Specific GravityNo information available.SolubilityNo information available.log PowNo data available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions to Avoid Excess heat. Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous Reactions . None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product InformationNo acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Methoxyethanol	2370 mg/kg (Rat)	1280 mg/kg (Rabbit)	Not listed
		2000 mg/kg (Rat)	
Acetic acid	3310 mg/kg (Rat)	1060 mg/kg (Rabbit)	11.4 mg/L (Rat) 4 h
Sodium lauryl sulfate	1288 mg/kg (Rat)	580 mg/kg (Rabbit)	3900 mg/m ³ (Rat) 1 h
Formamide	5000 mg/kg (Rat)	Not listed	3900 ppm (Rat) 6 h

Irritation No information available.

Toxicologically Synergistic

Products

No information available.

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Mutagenic Effects Mutagenic effects have occurred in humans.

Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects Developmental effects have occurred in experimental animals.

Teratogenic effects have occurred in experimental animals..

Other Adverse Effects The toxicological properties have not been fully investigated.. See actual entry in RTECS for

complete information.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
2-Methoxyethanol	Not listed	500 mg/L LC50 96 h	Not listed	10000 mg/L EC50 > 24 h
		10000 mg/L LC50 96 h		
		16000 mg/L LC50 96 h		
		9650 mg/L LC50 96 h		
Acetic acid	Not listed	Pimephales promelas: LC50	Photobacterium	EC50 = 95 mg/L/24h
		= 88 mg/L/96h	phosphoreum: EC50 = 8.8	
		Lepomis macrochirus: LC50 =	mg/L/15 min	
		75 mg/L/96h	Photobacterium	
			phosphoreum: EC50 = 8.8	
			mg/L/25 min	
			Photobacterium	
			phosphoreum: EC50 = 8.8	
			mg/L/5 min	
Sodium lauryl sulfate	3.59 - 15.6 mg/L EC50 96 h	1.31 mg/L LC50 96 h	= 0.46 mg/L EC50	1.8 mg/L EC50 = 48 h
	53 mg/L EC50 = 72 h	9.9-20.1 mg/L LC50 96 h	Photobacterium	
	30 - 100 mg/L EC50 96 h	4.5 mg/L LC50 96 h	phosphoreum 30 min	
	117 mg/L EC50 = 96 h	4.62 mg/L LC50 96 h	= 0.72 mg/L EC50	
		7.97 mg/L LC50 96 h	Photobacterium	
		10.2-22.5 mg/L LC50 96 h	phosphoreum 15 min	
		10.8-16.6 mg/L LC50 96 h	= 1.19 mg/L EC50	
		13.5-18.3 mg/L LC50 96 h	Photobacterium	
		15-18.9 mg/L LC50 96 h	phosphoreum 5 min	
		22.1-22.8 mg/L LC50 96 h		
		4.06-5.75 mg/L LC50 96 h		
		4.2-4.8 mg/L LC50 96 h		
		4.3-8.5 mg/L LC50 96 h		
		5.8-7.5 mg/L LC50 96 h		
		6.2-9.6 mg/L LC50 96 h		
		8-12.5 mg/L LC50 96 h		
		4.2 mg/L LC50 96 h		
Formamide	500 mg/L EC50 > 72 h	9135 mg/L LC50 96 h	EC50 > 10000 mg/L 17 h	500 mg/L EC50 > 48 h
	500 mg/L EC50 > 96 h	4600-9300 mg/L LC50 96 h		

Persistence and Degradability

No information available

Bioaccumulation/ Accumulation

No information available

Mobility .

Component	log Pow
2-Methoxyethanol	-0.85
Acetic acid	-0.2
Sodium lauryl sulfate	1.6
Formamide	-0.82

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
2-Methoxyethanol	S	Х	-	203-713- 7	-		X	X	Х	X	Х
Acetic acid	Х	Х	-	200-580- 7	-		Х	Х	Х	Х	Х
Sodium lauryl sulfate	Х	Х	-	205-788- 1	-		Х	Х	Х	Х	Х
Formamide	Х	Х	-	200-842- 0	-		Х	Х	Х	Х	Х

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Component	TSCA 12(b)
2-Methoxyethanol	Section 5

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
2-Methoxyethanol	109-86-4	5	1.0

SARA 311/312 Hazardous Categorization

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Acetic acid	X	5000 lb	-	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
2-Methoxyethanol	X		-

OSHA

Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Acetic acid	5000 lb	-	

California Proposition 65

This product contains the following Proposition 65 chemicals:

This product contains the following i reposition so chomicals:							
Component	CAS-No	California Prop. 65	Prop 65 NSRL				
2-Methoxyethanol	109-86-4	Developmental	-				
		Male Reproductive					

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2-Methoxyethanol	X	Χ	X	Χ	Х
Acetic acid	X	Х	X	-	X
Formamide	X	Χ	X	-	Х

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

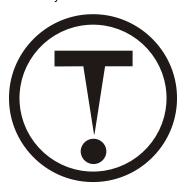
Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials



16. OTHER INFORMATION

Prepared By Regulatory Affairs

Remel

Tel: 1-800-255-6730

Creation Date 12-May-2009

Print Date 12-Feb-2013

Revision Summary "***", and red text indicates revision

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS