



Safety Data Sheet

RF 1377 Part A

Section 1. Identification

Product Identifier	RF 1377 Part A		
Synonyms	Reaction Product of Castor Oil with Toluenediisocyanate (TDI)		
Manufacturer Stock Numbers	29554A; 29552		
Recommended use	Reaction Product of Castor Oil with Toluenediisocyanate (TDI)		
Uses advised against	Contamination of isocyanates with water could lead to dangerous pressure inside closed containers by generation of carbon dioxide.		
Manufacturer Contact			
Address	Resin Formulators 18027 Bishop Avenue Carson, CA, 90746 USA		
	Phone	Emergency Phone	Fax
	(310) 204-6159	(800) 424-9300 CHEMTREC	(310) 202-7247
	Email	Website	
	sales@evroberts.com	http://www.evroberts.com	

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - INHALATION - Category 3 SENSITIZATION - SKIN - Category 1A SKIN CORROSION/IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (Repeated - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Single E - Category 3
Signal Word	Warning

Pictogram



Hazard Statements

Causes mild skin irritation
May cause an allergic skin reaction
May cause respiratory irritation
Repeated exposure may cause sensitization of the respiratory tract and the development of an asthma reaction on further exposure
Toxic if inhaled

Precautionary Statements

Response

Call a poison center or doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin: Wash with plenty of soap and water for a minimum of 15 minutes
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.

Storage

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

Disposal

Dispose of contents/container by absorbing spill with inert material such as sand, earth, or vermiculite. Sweep up and place in a suitable sealed container. Ventilate the area and use decontaminant for clean up. Leave decontaminant for at least 30 minutes and shovel residues up and into open-top drums then clean decontaminated area with water. Test for vapors. Decontaminant should comprise of: 90-95% Water, 5-10% Concentrated Ammonia Solution and 0-2% of liquid detergent.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
26471-62-5	Benzene, 1,3-diisocyanatomethyl-	<10.0 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Ingestion	Drink promptly a large quantity of milk, egg white or gelatin solution. If not available, drink a large quantity of water. Obtain medical attention immediately.
Skin	Remove contaminated clothing and shoes. Wash skin with alcohol, followed by soap and water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
Eye	Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
Notes To Physician	Treat for potential respiratory irritation. Routes of entry are: Eyes, skin, ingestion, inhalation, mist.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Use dry chemical or water spray when fighting fires involving this material.
Unsuitable Extinguishing Media	Contamination of isocyanates with water could lead to dangerous pressure inside closed containers by generation of carbon dioxide.
Flash Point	>199 Degrees F (93 Degrees C) (Setaflash Closed Cup ASTM D 3828)
Flammable Limits (Lower)	Flammable Limits (Lower): Not Available
Flammable Limits (Upper)	Flammable Limits (Upper): Not Available
Auto Ignition Temperature	Auto Ignition Temperature: Not Available
Hazardous Combustion Products	Hydrocarbons, Oxides of carbon, Oxides of nitrogen, Hydrogen cyanide, Traces of isocyanates
Special Protective Equipment for Fire Fighters	Special Protective Equipment for Fire Fighters: Fire-fighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

Section 6. Accidental Release Measures

Personal precautions	Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.
Major Spills	For Major Spills, call CHEMTREC at 1-800-424-9300
Spills, Leaks or Releases	Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Evacuate the area. Prevent further leakage, spillage or entry into drains. Contain and absorb large spillages onto an inert, non-flammable absorbent carrier (such as earth or sand), Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spillage area clean with liquid decontaminant. Remove and dispose of residues. Notify applicable government authorities if release is reportable. Small spills: Take up with an absorbent material and dispose of properly.
Use of Decontamination Solution	Allow deactivated material to stand for at least 30 minutes before shoveling into drums. Do not tighten the bungs. Mixing with wet earth is also effective, but slower.
Suitable Decontaminant Solution	Use 90-95% Water, 5-50% Concentrated Ammonia Solution, and 0-2% Liquid Detergent. Clean area with water after a minimum of 30 minutes allowing decontaminant to set. Test atmosphere for vapors to ensure safe working conditions before personnel are allowed to return to work.

Section 7. Handling and Storage

Handling	Use with adequate ventilation.
Storage Requirements	Keep containers properly sealed and when stored indoors, in a well ventilated area. Keep contents away from moisture. Due to reaction with water, producing CO ₂ gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Do not store in containers made of copper, copper alloys or galvanized surfaces. If a container is contaminated, do not reseal it. Reseal containers only after placing under a nitrogen blanket.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Benzene, 1,3-diisocyanatomethyl-	0.02 ppm	N/A	N/A
Personal Protective Equipment	Goggles, Gloves, Apron, Face Shield, Respirator, PROTECTIVE CLOTHING, RUBBER BOOTS, VENTILATION, CHEMICAL GOGGLES			
RESPIRATOR	DO NOT BREATHE FUMES! Use a NIOSH-approved respirator.			
GLOVES	Neoprene, Nitrile-Butadiene rubber, butyl rubber. Thin disposable gloves should be avoided for repeated or long term use.			
CHEMICAL_GOGGLES	Chemical Safety Goggles with Side Shields. Indirect Vented Goggles.			
FACE_SHIELD	Face Shield			
PROTECTIVE CLOTHING	Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.			
RUBBER_BOOTS	Please wear rubber boots at all times			
VENTILATION	Have proper ventilation			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Pale Yellow
Odor	Pungent
Odor Threshold	N/A
Solubility	N/A
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	1.073
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	>199°F (>93° C)
FP Method	Setaflash Closed Cup ASTM D 3828
Ph	N/A
Melting Point	N/A
Boiling Point	N/A
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	Low
Flammability	1
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	N/A
Vapor Density	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions
Incompatibilities	Oxidizing agents, acids, water and base
Hazardous Polymerization	Will not occur

Section 11. Toxicological Information

Toxicology Information

This product has not been tested as a whole. Component information available sources is listed below.

Toxicology Data - LS50 (Rat)

Toluene-2,4-diisocyanate (1) Result: >5,000 mg/kg

Toluene-2-6-diisocyanate (2)

Mixture of (1) and (2) (TDI)

Acute toxicity-Swallowing

Toxicology Data - LS50 (Rabbit)

Toluene-2,4-diisocyanate (1) Result: >5,000 mg/kg

Toluene-2-6-diisocyanate (2) Result: >9,400 mg/kg

Mixture of (1) and (2) (TDI)

Acute toxicity-Skin absorption

Toxicology Data - LC50 (Rat)

Toluene-2,4-diisocyanate (1) Result: 370 mg/m³

Toluene-2-6-diisocyanate (2) Exposure time: 4 h

Mixture of (1) and (2) (TDI)

Acute toxicity-Inhalation

Toxicology Data - Species (Rabbit)

Toluene-2,4-diisocyanate (1) Result: Severe irritation

Toluene-2-6-diisocyanate (2)

Mixture of (1) and (2) (TDI)

Skin Irritation-Skin Contact

Toxicology Data - Species (Rabbit)

Toluene-2,4-diisocyanate (1) Result: Severe irritation

Toluene-2-6-diisocyanate (2)

Mixture of (1) and (2) (TDI)

Eye Irritation-Eye Contact

Toxicology Data - Species (Guinea Pig)

Toluene-2,4-diisocyanate (1) Result: Positive

Toluene-2-6-diisocyanate (2)

Mixture of (1) and (2) (TDI)

Sensitization

Carcinogenicity

Component (Toluene-2,4-diisocyanate (1) Toluene-2,6-diisocyanate (2) Mixture of (1) and (2) (TDI): ACGIH: A4 (TDI) IARC:

2B (TDI) Oral gavage administration of TDI in corn oil to rats and mice for two year resulting in an increased incidence of tumors. Six hour daily inhalation exposures to rats and mice of 0.05 and 0.15 ppm TDI for two years did not show evidence of carcinogenic activity.

Section 12. Ecological Information

Ecological Information This product has not been tested as a whole. Component information available sources is listed below.

Component Ecological Data - LC50-Grass Shrimp (*Plaeomonetes pugio*)
Toluene-2,4-diisocyanate (1) Result: >508 mg/l
Toluene-2,6-diisocyanate (2) Exposure Time: 48 h
Mixture of (1) and (2) (TDI)
Acute toxicity fish

Component Ecological Data - LC50-Fathead Minnow (*Pimephales promelas*)
Toluene-2,4-diisocyanate (1) Result: >508 mg/l
Toluene-2,6-diisocyanate (2) Exposure Time: 48 h
Mixture of (1) and (2) (TDI)
Acute toxicity fish

Section 13. Disposal

WASTE DISPOSAL METHOD: Dispose of in accord with local, state and federal regulations

Empty Container Precautions Empty containers must be handled in a well ventilated area. Fill drums with several centimeters of water. Leave drum open and slowly shake and roll to allow water contact. Leave open for sufficient time to cure. Dispose in accordance with local and/or national regulations pertinent to polymeric waste. WARNING! Burning this material can produce toxic fumes!

Section 14. Transport Information

UN Number N/A

UN Proper Shipping Name N/A

DOT Classification Not Regulated

Packing Group N/A

DOT NOT REGULATED This section is provided for general information only. The shipping description below may not represent requirements for all modes of transportation, packaging, shipping methods or locations outside of the United States.

FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.

DOT CLASSIFICATION - Not Regulated

The information provided herein may not include the impact of additional regulatory requirements (eg, for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

IMDG Classification This product is not regulated by IMDG

ICAO Classification This product is not regulated by ICAO

Section 15. Regulatory Information

Comprehensive Environmental Response

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

CAS#: 26471-62-5 Max Weight %: 9.00

Toluene-2,4-diisocyanate (1) Toluene-2,6-Diisocyanate (2) Mixture of (1) and (2) (TDI)

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

CAS#: 26471-62-5 Max Weight %: 9.00

Toluene-2,4-diisocyanate (1) Toluene-2,6-Diisocyanate (2) Mixture of (1) and (2) (TDI)

Massachusetts Right-To-Know Substance List (MSL) - Hazardous Substances and Extraordinary Hazardous Substances on the MSL must be identified when present in products.

CAS#: 26471-62-5 Max Weight %: 9.00

Toluene-2,4-diisocyanate (1) Toluene-2,6-Diisocyanate (2) Mixture of (1) and (2) (TDI)

Pennsylvania Right-To-Know Hazardous Substance List-Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

CAS#: 26471-62-5 Max Weight %: 9.00

Toluene-2,4-diisocyanate (1) Toluene-2,6-Diisocyanate (2) Mixture of (1) and (2) (TDI)

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Reaction product of castor oil and 2,4/2,6-toluene diisocyanate in dibasic esters
CAS#: 6700-43-0

Toluene-2,4-diisocyanate (1) Toluene-2,6-diisocyanate (2) Mixture of (1) and (2) (TDI) CAS#: 26471-62-5

EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard, Delayed Health Hazard

California Proposition 65 - This product contains toluene diisocyanate (>0.1%).

Canada The ingredient of this product are on the DSL.

Europe The ingredient of this product are on EINECS inventory

United States The ingredient of this product are on the TSCA inventory

Australia The ingredient of this product are on the AICS inventory

China The ingredient of this product are on the IECSC inventory

CHEMICAL INVENTORY

FDA

Korea The ingredient of this product are on the ECL
For FDA status, please contact the Product Safety and Regulatory Affairs
Department of the Chemtura Corporation.

Section 16. Other Information

Revision Date

4/6/2015

HMIS Rating (Not Regulated) The HMIS Rating for this product is:
Health: 2 Flammability: 1 Reactivity: 1

For Information Purposes Only - No Longer Regulated

Disclaimer

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of E.V. Roberts' product safety program. It is not intended to constitute performance information concerning the product. No warranty, expressed or implied, or merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. E.V. Roberts does not undertake to furnish advice on such matters.



Safety Data Sheet

RF 1377 Part B

Section 1. Identification

Product Identifier RF 1377 Part B
Synonyms Catalyst
Manufacturer Stock Numbers 29554B; 29552

Recommended use Catalyst
Uses advised against Incompatible with strong oxidizing agents. Emits toxic fumes under fire conditions. Combustion can produce toxic gases.

Manufacturer Contact
Address Resin Formulators
18027 Bishop Avenue
Carson, CA, 90746
USA

Phone
(310) 204-6159

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(310) 202-7247

Email
sales@evroberts.com

Website
<http://www.evroberts.com>

Section 2. Hazards Identification

Classification ACUTE TOXICITY - DERMAL - Category 5
EYE DAMAGE/IRRITATION - Category 2B
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single E - Category 3)

Signal Word Warning
Pictogram



Hazard Statements	May be harmful in contact with skin May cause respiratory irritation May cause severe irritation to skin Moderately irritating to eyes
Precautionary Statements	
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Rinse mouth. Do NOT induce vomiting. Wash contaminated clothing before reuse.
Prevention	Avoid breathing dust/fume/gas/mist/ vapors/spray. Use only outdoors or in a well-ventilated area. Wash eyes and skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with all government regulations. Small spills: Absorb with inert material (sand earth vermiculite). Collect for disposal. Large spills: Dike to contain spill. Pump excess material into suitable container (metal drums, metal tank, or such)

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

Other Protective Equipment With this material, it is imperative that employees have immediate access to eye baths and safety showers. Please use the eye baths and safety showers as needed when material gets in the eyes or on the skin.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	<0.1 %
147-14-8	Copper, [29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N3	<0.1 %
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	<1.0 %
77-58-7	Stannane, dibutylbis[(1-oxododecyl)oxy]-	<1.0 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Eye	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.
Skin	Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion	If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Other Protective Equipment	Have Eye Bath and Safety Shower available in case of exposure

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Use alcohol-resistant foam, carbon dioxide or dry chemical when fighting fires involving this material.
Unsuitable Extinguishing Media	Emits toxic fumes under fire conditions. Combustion can produce toxic fumes. Incompatible with strong oxidizing agents
Flash Point	Flash Point: >200°F (93°C)
Flammable Limits (Lower)	Flammable Limits (Lower): Not Available
Flammable Limits (Upper)	Flammable Limits (Upper): Not Available
Auto Ignition Temperature	Auto Ignition Temperature: Not Available
Special Fire Fighting Procedures	Prevent runoff from entering streams, sewers or drinking water supply. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment/clothing. Treat as oil fire. Fight fire from a distance; sealed containers can rupture explosively when heated. Water may be used to keep fire-exposed containers cool until fire is out.

Section 6. Accidental Release Measures

Personal precautions	Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.
Environmental Precautions	Use appropriate containment and personal protection recommended in section 8 to avoid environmental contamination. Do not allow spill to enter into sewers, water sources or extensive land areas. Construct a dike to prevent spreading. Isolate the area and deny entry to unnecessary and unprotected personnel.
Small Spills	Soak up small spills with absorbant material and place in labeled containers for recovery or disposal.
Major Spills	For Major Spills, call CHEMTREC at 1-800-424-9300

Section 7. Handling and Storage

Storage	Store in a tightly closed container in a cool, well ventilated area
Handling Precautions	Use standard industrial practices. After handling, wash hands before eating or smoking.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	N/A	N/A	N/A
	Copper, [29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N3	N/A	N/A	N/A
	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	N/A	none	N/A
	Stannane, dibutylbis[(1-oxododecyl)oxy]-	0.1 mg	N/A	N/A
Personal Protective Equipment Engineering Controls	Goggles, Gloves, Apron, Face Shield, Respirator, PROTECTIVE CLOTHING, RUBBER BOOTS, VENTILATION, CHEMICAL GOGGLES Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. Follow guidelines in the ACGIH publication "Industrial Ventilation". Monitoring for airborne diisocyanate should become part of the overall employee exposure characterization program. NIOSH, OSHA and others have developed sampling and analytical methods.			
Respiratory Protection	Use a NIOSH/MSHA approved positive pressure air-supplied respirator equipped with a full facepiece, or an air-supplied hood, if airborne concentrations exceed or are expected to exceed the TLV.			
CHEMICAL_GOGGLES	Chemical Safety Goggles with Side Shields. Indirect Vented Goggles.			
Eye Protection	Chemical safety goggles. If there is a potential for splashing, use a full-face shield.			
FACE_SHIELD	Face Shield			
Other Protective Equipment	Have Eye Bath and Safety Shower available in case of exposure			
Skin Protection	The following protective materials are recommended. Gloves - neoprene, nitrile-butadiene rubber, butyl rubber. Thin disposable gloves should be avoided for repeated or long term use. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.			
PROTECTIVE CLOTHING	Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.			
RUBBER_BOOTS	Please wear rubber boots at all times			
Control of Environmental Exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.			
Exposure Limits	No exposure limits have been established			

Section 9. Physical and Chemical Properties

Physical State	Oily Liquid
Color	Pale Yellow
Odor	Slight
Odor Threshold	N/A
Solubility	Insoluble
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	0.96
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	>93°C (>200° F)
FP Method	setaflash closed cup ASTM D 3828
Ph	N/A
Melting Point	N/A
Boiling Point	595°F (313° C) at STP
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	1
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	N/A
Vapor Density	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing materials
Hazardous Combustion Products	Will not occur

Section 11. Toxicological Information

Toxicology Information	Toxicity has not been established for the product as a whole. However no component of this product in its present concentration is expected to be toxic.
Reproductive Effects	No adverse reproductive effects are anticipated.
Mutagenicity	There is no substantial evidence of mutagenic potential.
Teratogenicity and Fetotoxicity	No information is available and no adverse teratogenic embryotoxic effects are anticipated.
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Environmental Release Information	Keep out of surface waters, sewers and waterways entering or leading to surface waters. Notify authorities if any exposure to the general public or environment occurs or is likely to occur.
Ecological Information	No data
Mobility in Soil	No data available
Ecological Information	This product has not been tested

Section 13. Disposal

Disclaimer	The generation of waste should be avoided or minimized wherever possible.
Disclaimer Part 2	Disposal should be in accordance with local, state, provincial and national regulations. This material is not a hazardous waste under RCRA 40 CFR 261. Small quantities should be treated with a liquid decontaminate. The treated waste is not a hazardous material under RCRA 40 CFR 261. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.
Disclaimer Part 3	Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	NOT REGULATED
DOT Classification	Not Regulated
Packing Group	N/A
DOT NOT REGULATED	This section is provided for general information only. The shipping description below may not represent requirements for all modes of transportation, packaging, shipping methods or locations outside of the United States.

FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.

DOT CLASSIFICATION - Not Regulated

The information provided herein may not include the impact of additional regulatory requirements (eg, for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

IMDG Classification	This product is not regulated by IMDG
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ICAO Classification	This product is not regulated by ICAO
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Section 15. Regulatory Information

Comprehensive Environmental Response

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:
NONE

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:
NONE

Massachusetts Right-To-Know Substance List (MSL) - Hazardous Substances and Extraordinary Hazardous Substances on the MSL must be identified when present in products.
NONE

Pennsylvania Right-To-Know Hazardous Substance List-Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:
NONE

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)
Castor Oil - CAS#: 8001-79-4

EPA Hazard Categories (SARA 311, 312): NONE

California Proposition 65 - NONE

CHEMICAL INVENTORY

Canada This product is on the DSL.

Europe This product is on the EINECS inventory. 232-293-8

United States This product is on the TSCA inventory

Australia This product is on the AICS inventory

China This product is on the IECSC inventory

Korea This product is listed on the Existing Chemicals List (ECL)

Philippines This product is on the PICCS

Section 16. Other Information

Revision Date

4/6/2015

HMIS Rating (Not Regulated) The HMIS Rating for this product is:
Health: 1 Flammability: 1 Reactivity: 0

0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe

Disclaimer

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of E.V. Roberts' product safety program. It is not intended to constitute performance information concerning the product. No warranty, expressed or implied, or merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. E.V. Roberts does not undertake to furnish advice on such matters.