

SAFETY DATA SHEET

Creation Date 26-Mar-2014 Revision Date 26-Mar-2014 Revision Number 1

1. Identification

Product Name Cytoseal™ XYL

Cat No.: 8312-4, V8312-4, 8312-16

Synonyms No information available.

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Richard Allan Scientific

A Subsidiary of Thermo Fisher Scientific

4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270 Emergency Telephone Number Chemtrec US: (800) 424-9300 Chemtrec EU: 001 (202) 483-7616

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Acute dermal toxicity

Acute Inhalation Toxicity - Vapors

Skin Corrosion/irritation

Serious Eye Damage/Eye Irritation

Reproductive Toxicity

Specific target organ toxicity (single exposure)

Category 2

Category 2

Category 1

Category 3

Target Organs - Central nervous system (CNS).

Specific target organ toxicity - (repeated exposure) Category 2

Target Organs - Kidney, Liver, Blood.

Label Elements

Signal Word

Danger

Hazard Statements

Highly flammable liquid and vapor

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Harmful in contact with skin
Causes skin irritation
Causes serious eye irritation
Harmful if inhaled
May cause drowsiness or dizziness
May damage fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure



Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

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

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention.

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

3. Composition / information on ingredients

Haz/Non-haz

Component	CAS-No	Weight %
Xylenes (o-, m-, p- isomers)	1330-20-7	67-70
Acrylic Resin	28262-63-7	25 - 30
Butyl benzyl phthalate	85-68-7	<1
2,6-Di-tert-butyl-p-cresol	128-37-0	< 1.0

4. First-aid measures

General Advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

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

Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye

wide open while rinsing. If symptoms persist, call a physician.

Skin ContactWash off immediately with plenty of water for at least 15 minutes. Immediate medical attention

is required. Call a physician immediately. SPEEDY ACTION IS CRITICAL, GET MEDICAL AID IMMEDIATELY.. If symptoms persist, call a physician. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation

if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

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

with water and drink afterwards plenty of water. Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms/effects Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media CO₂, dry chemical, dry sand, alcohol-resistant foam. Use water spray to cool unopened

containers.

Unsuitable Extinguishing Media Water may be ineffective

Flash Point 18.9°C / 66°F

Method - No information available

Autoignition Temperature

Explosion Limits

No information available.

 Upper
 6.0 vol %

 Lower
 1.0 vol %

Sensitivity to Mechanical

Impact

No information available

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Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO₂).

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

Health	Flammability	Instability	Physical hazards
2	3	0	N/A

6. Accidental release measures

Personal Precautions Remove all sources of ignition. Use personal protective equipment. Take precautionary

measures against static discharges. Do not get in eyes, on skin, or on clothing. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological

Information. Avoid release to the environment. Collect spillage. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product

from entering drains.

Methods for Containment and Clean

Up

Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Use only under a chemical fume hood. Use explosion-proof equipment. Wear personal

protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Pay attention to flashback. No information available.. Do

not take internally.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat

and sources of ignition. Flammables area. Keep containers tightly closed in a cool, well-

ventilated place. Keep in properly labeled containers.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm	(Vacated) TWA: 100 ppm	
	STEL: 150 ppm	(Vacated) TWA: 435 mg/m ³	
		(Vacated) STEL: 150 ppm	
		(Vacated) STEL: 655 mg/m ³	
		TWA: 100 ppm	
		TWA: 435 mg/m ³	
2,6-Di-tert-butyl-p-cresol	TWA: 2 mg/m ³	(Vacated) TWA: 10 mg/m ³	TWA: 10 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm	TWA: 100 ppm	TWA: 100 ppm
	TWA: 434 mg/m ³	TWA: 435 mg/m ³	STEL: 150 ppm
	STEL: 150 ppm	STEL: 150 ppm	
	STEL: 651 mg/m ³	STEL: 655 mg/m ³	
2,6-Di-tert-butyl-p-cresol	STEL: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 2 mg/m ³
		STEL: 20 mg/m ³	

Legend

ACGIH - American Conference of Governmental Hygienists
OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are

close to the workstation location.

Personal Protective Equipment

Eye/face Protection Tightly fitting safety goggles. Face-shield.

Skin and body protection Long sleeved clothing. Apron. Impervious gloves.

Respiratory Protection 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

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and

clothing.

9. Physical and chemical properties

Physical StateLiquidAppearanceColorlessOdoraromatic

Odor Threshold
pH
No information available.
No information available.
No data available
No data available
No data available
110.6°C / 231.1°F

Boiling Point/Range 110.6°C / 231.1°F
Flash Point 18.9°C / 66°F
Evaporation Rate Slower than ether
Flammability (solid,gas) No information available

Flammability or explosive limits

 Upper
 6.0 vol %

 Lower
 1.0 vol %

Vapor Pressure6.7 mmHg @ 21 °CVapor DensityHeavier than air

Relative Density 0.864

Solubility Insoluble in water
Partition coefficient; n-octanol/water No data available

Autoignition TemperatureNo information available.Decomposition temperatureNo information available.ViscosityNo information available.

10. Stability and reactivity

Reactive Hazard None known, based on information available.

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Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Heat, flames and sparks.

Incompatible Materials Strong oxidizing agents, Strong acids

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

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50 Category 4. ATE = 1000 - 2000 mg/kg. **Vapor LC50** Category 4. ATE = 10 - 20 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	29.08 mg/L [MOE Risk Assessment
			Vol.1, 2002]
Butyl benzyl phthalate	2330 mg/kg (Rat)	6700 mg/kg (Rat)	6.7 mg/L (Rat) 4 h
2,6-Di-tert-butyl-p-cresol	890 mg/kg (Rat)	Not listed	Not listed
	>2000 mg/kg (Rat)		

Toxicologically Synergistic

Products

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

IrritationIrritating to eyes and skinSensitizationNo information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Xylenes (o-, m-, p-	1330-20-7	Not listed				
isomers)						
Acrylic Resin	28262-63-7	Not listed				
Butyl benzyl phthalate	85-68-7	group 3	Not listed	Not listed	Not listed	Not listed
2,6-Di-tert-butyl-p-	128-37-0	Not listed				
cresol						

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

Mutagenic Effects Mutagenic effects have occurred in experimental animals.

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

impaired fertility.

Developmental EffectsDevelopmental effects have occurred in experimental animals. Possible risk of harm to the

unborn child.

Teratogenicity

Teratogenic effects have occurred in experimental animals..

STOT - single exposure

Central nervous system (CNS).

STOT - repeated exposure

Kidney, Liver, Blood.

Aspiration hazard

No information available.

Symptoms / effects, both acute and delayed

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Japan - Endocrine Disruptor
	Candidate List	Evaluated Substances	Information
Butyl benzyl phthalate	Group I Chemical	High Exposure Concern	Not applicable

Other Adverse Effects

Tumorigenic effects have been reported in experimental animals.. See actual entry in RTECS

for complete information.

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Xylenes (o-, m-, p- isomers)	Not listed	7.711 - 9.591 mg/L LC50 96 h	EC50 = 0.0084 mg/L 24 h	0.6 mg/L LC50 = 48 h
		30.26 - 40.75 mg/L LC50 96 h		3.82 mg/L EC50 = 48 h
		23.53 - 29.97 mg/L LC50 96 h		_
		2.661 - 4.093 mg/L LC50 96 h		
		13.5 - 17.3 mg/L LC50 96 h		
		13.1 - 16.5 mg/L LC50 96 h		
		780 mg/L LC50 96 h		
		19 mg/L LC50 96 h		
		13.4 mg/L LC50 96 h		
Butyl benzyl phthalate	0.2 - 28.2 mg/L EC50 72 h	Lepomis macrochirus:	Not listed	0.97 mg/L EC50 = 48 h
	0.02 - 0.25 mg/L EC50 96 h	LC50=1.7 mg/L 96h		1.28 mg/L EC50 = 48 h
	_	Salmo gairdneri: LC50=1.1		0.76 mg/L EC50 > 48 h
		mg/L 96h		0.9 - 1.1 mg/L EC50 48 h
2,6-Di-tert-butyl-p-cresol	EC50 = 0.758 mg/L 96h	LC50 = 0.199 mg/L 96h	EC50 = 7.82 mg/L 5 min	EC50 >0.31 mg/L 48h
	EC50 = 6 mg/L 72 h		EC50 = 8.57 mg/L 15 min	
	_		EC50 = 8.98 mg/L 30 min	

Persistence and Degradability

No information available.

Bioaccumulation/ Accumulation

No information available

Mobility

Component	log Pow
Xylenes (o-, m-, p- isomers)	3.15
Butyl benzyl phthalate	4.91
2,6-Di-tert-butyl-p-cresol	4.17

13. Disposal considerations

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

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Xylenes (o-, m-, p- isomers) - 1330-20-7	U239	-

14. Transport information

DOT

UN-No UN1866

Proper Shipping Name RESIN SOLUTION

Hazard Class 3
Packing Group ||

TDG

UN-No UN1866

Proper Shipping Name RESIN SOLUTION

Hazard Class 3 Packing Group II

IATA

UN-No UN1866

Proper Shipping Name RESIN SOLUTION

Hazard Class 3
Packing Group ||

IMDG/IMO

UN-No UN1866

Proper Shipping Name RESIN SOLUTION

Hazard Class 3
Packing Group

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Xylenes (o-, m-, p- isomers)	X	X	-	215-535-7	-		X	X	Х	X	Χ
Acrylic Resin	X	Х	-	-	-		Х	Χ	Х	X	Х
Butyl benzyl phthalate	X	X	-	201-622-7	-		Х	X	Х	X	Х
2.6-Di-tert-butyl-p-cresol	X	X	_	204-881-4	_		X	X	X	X	X

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.

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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)

Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Xylenes (o-, m-, p- isomers)	1330-20-7	67-70	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Xylenes (o-, m-, p- isomers)	X	100 lb	-	-
Butyl benzyl phthalate	=	=	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Xylenes (o-, m-, p- isomers)	X		-

OSHA Occupational Safety and Health Administration

OSHA - Occupational Safety and Health Administration

CERCI A

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
Xylenes (o-, m-, p- isomers)	100 lb	-
Butyl benzyl phthalate	100 lb	-

California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL
Butyl benzyl phthalate	85-68-7	Developmental	-

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Xylenes (o-, m-, p- isomers)	Х	X	X	Х	X
Butyl benzyl phthalate	Х	X	X	Х	=
2,6-Di-tert-butyl-p-cresol	X	X	X	-	X

U.S. Department of Transportation

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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 Serious risk, Grade 3

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

B2 Flammable liquid

D1B Toxic materials D2A Very toxic materials



16. Other information

Prepared By Regulatory Affairs

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

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 SDS