



SAFETY DATA SHEET

Revision Date **15-Mar-2012**

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name CytoScint ES™ Liquid Scintillation Fluid

Recommended Use For research use only
Registration Number No information available

1.1 Product Identifier

Catalog Number: 882453

Supplier: MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency Telephone Number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

1.2 Relevant identified uses of the substance or mixture and uses advised against

2. HAZARDS IDENTIFICATION

GHS - Classification

Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

GHS Label elements, including precautionary statements

Physical Hazards None

Risk Code

R50 - Very toxic to aquatic organisms.

S-phrase(s)

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.



Signal Word

Danger

Precautionary Statements

P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 - Rinse mouth
P262 - Do not get in eyes, on skin, or on clothing
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+ P350 - IF ON SKIN: Gently wash with plenty of soap and water
P310 - Immediately call a POISON CENTRE or doctor/physician
P322 - Specific measures (see .? on this label)
P361 - Remove/Take off immediately all contaminated clothing
P363 - Wash contaminated clothing before reuse
Dispose of contents/container to an approved incineration plant
P273 - Avoid release to the environment
P501 - Dispose of contents/container to an approved waste disposal plant

NFPA rating:

NFPA Health: 1
NFPA Flammability: 2
NFPA Reactivity: 0
NFPA Special Note: -

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

General advice

Specific measures (see supplemental first aid instructions on this label).

Skin

IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Ingestion

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

Spills and Leaks

Rinse mouth

Storage

Collect spillage

Disposal

Store locked up

Dispose of contents of container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms:

Not Available

Chemical Name	EC No.	CAS Number	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
Linear Alkylbenzene	EEC No. 272-008-4	68648-87-3	30-70%	-		No data available
Non-ionic Surfactants	-	9016-45-9	0-40%	-		No data available
Phenylxylethane	EEC No. 228-249-2	6196-95-8	5-50%	-		No data available
p-bis-(o-METHYLSTYRYL) BENZENE	EEC No. 236-285-5	13280-61-0	<1%	-		No data available
2,5-DIPHENYLOXAZOLE	EEC No. 202-181-3	92-71-7	<1%	-		No data available

For the full text of the R phrases and H statements mentioned in this section, see Section 2

4. FIRST AID MEASURES

4.1 Description of first-aid measures

General Advice	Immediate medical attention is not required. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Skin Contact	Wash off immediately with plenty of water. If symptoms persist, call a physician.
Inhalation	Move to fresh air.
Rinse mouth	Drink plenty of water. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Main Symptoms No information available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for firefighters

No information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

See Section 12 for additional information.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

6.4 Reference to other sections

See Section 12 for additional information

7. HANDLING AND STORAGE

Storage

ROOM TEMPERATURE

7.1 Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

Exposure Scenario

No information available

Other Guidelines

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Derived No Effect Level (DNEL)	No information available
Predicted No Effect Concentration (PNEC)	No information available

8.2 Exposure controls

Engineering Measures	Ensure adequate ventilation, especially in confined areas..
Personal Protective Equipment	
Eye Protection	Tightly fitting safety goggles
Skin and Body Protection	Dry moleskin gloves. Polyvinyl alcohol or nitrile-butyl rubber gloves.
Hand Protection	Protective gloves
Respiratory Protection	No special protective equipment required..
Environmental Exposure Controls	Local authorities should be advised if significant spillages cannot be contained.. Do not allow material to contaminate ground water system.. Prevent product from entering drains..
Hygiene Measures	When using, do not eat, drink or smoke.. Remove and wash contaminated clothing before re-use..

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical State Liquid.
Appearance and Odor: Clear and colorless; aromatic odor.

Physical Property Data

pH Value	No data available
Flash Point	No information available
Autoignition Temperature	No data available
Melting/Freezing Point	
Boiling Point (°C)	No information available.
Vapor Pressure	No data available
Vapor Density	No information available
Water Solubility	No data available
Evaporation Rate	No data available.
Flammability (solid, gas)	No data available
Flammability Limits in Air	
upper flammability limit	No data available
lower flammability limit	No data available
Density	No data available
Specific Gravity	No data available.
Decomposition Temperature	No data available
Viscosity, Kinematic	No data available.
Viscosity, Dynamic	No data available.
Explosive Properties	No information available.
Oxidizing Properties	No information available
VOC Content (%)	No information available

9.2 Other Safety Information

Other Safety Information

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

None in particular

10.5 Incompatible Materials

None in particular

10.6 Hazardous Decomposition Products

None under normal processing.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity Product does not present an acute toxicity hazard based on known or supplied information

Inhalation No information available.

Eye Irritation No information available.

Acute toxicity 1% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Linear Alkylbenzene 68648-87-3	5000 mg/kg (Rat)	10200 mg/kg (Rabbit) 2000 mg/kg (Rat)	
Non-ionic Surfactants 9016-45-9	1310 mg/kg (Rat)	2 mL/kg (Rabbit)	

Mutagenic Effects Contains no ingredient listed as a mutagen.

Carcinogenic Effects None known.

Reproductive Toxicity None known

Developmental Toxicity None known.

Aspiration hazard None known

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Chemical Name	Ecotoxicity - Freshwater Algae - Acute Toxicity Data	Ecotoxicity - Freshwater Fish - Acute Toxicity Data	Ecotoxicity - Water Flea - Acute Toxicity Data
Linear Alkylbenzene 68648-87-3	EC50 (96 h) 1000 mg/L (Pseudokirchneriella subcapitata)	LC50 (96 h) 1000mg/L (Oncorhynchus mykiss)	EC500.009mg/L48h

12.2 Persistence and degradability

No data is available on the product itself

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Non-ionic Surfactants	Group III Chemical		

13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products

Dispose of in accordance with local regulations

Contaminated Packaging

Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

IMDG/IMO

Not regulated

ICAO

Not regulated

ICAO/IATA

Not regulated

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	EINECS / ELINCS	DSL / NDSL	PICCS	ENCS	IECSC	AICS	KECL
Linear Alkylbenzene	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Non-ionic Surfactants	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Phenylxylylene	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
p-bis-(o-METHYLSTYRYL) BENZENE	Listed	Listed	Listed			Listed		Listed
2,5-DIPHENYLOXAZOLE	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances / EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippine Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

16. OTHER INFORMATION

Disclaimer

The information provided on this SDS 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 Material Safety Data Sheet

Key literature references and sources for data

www.ChemADVISOR.com/