

Material Name: Myribond™

SDS ID: M-005

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Myribond™

Substance Name

Unsaturated Polyester

CAS No.

N/A

EC No.

N/A

1.2 Relevant Identified Uses

Industrial, Professional, Consumer Cleaning; Laboratory use; Formulation stage

Restrictions on Use

Currently only approved for Research and Development or limited volume applications

1.3 Details of the supplier of the safety data sheet

Myriant Corporation

45 Cummings Park

Woburn, MA 01801

Telephone No : +1 617-657-5200

Email : productsafety@myriant.com

Emergency Phone No : CHEMTREC: 001 800-424-9300

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification in accordance with Regulation (EC) 1272/2008

Not classified as hazardous

2.2.GHS Label Elements

Symbol(s)

None needed according to classification criteria

Signal Word

None needed according to classification criteria

Hazard Statement(s)

None needed according to classification criteria

Precautionary Statement(s)

Prevention

None needed according to classification criteria

Response

None needed according to classification criteria

Storage

None needed according to classification criteria

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other Hazards

Not Classified as PBT/vPvB by current EU criteria.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substances**

CAS/EC No.	Component	Percent
Trade secret	Unsaturated polyester	>= 99.5

Section 4 - FIRST AID MEASURES**4.1 Description of Necessary Measures**

Get medical advice/attention if you feel unwell.

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing before reuse.

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.

Ingestion

Get medical attention, if needed.

4.2 Most Important Symptoms/Effects**Acute**

No information on significant adverse effects.

Delayed

No information on significant adverse effects.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively. No special PPE required for first responder in the event of an emergency. It is always recommended to wear appropriate PPE for the task at hand.

Section 5 - FIRE FIGHTING MEASURES**5.1 Extinguishing Media****Suitable Extinguishing Media**

Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media

None known.

5.2 Special Hazards Arising from the Chemical

Negligible fire and explosion hazard in bulk form.

Hazardous Combustion Products

Oxides of carbon, low molecular weight hydrocarbons

5.3 Advice for firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Keep unnecessary people away, isolate hazard area and deny entry. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary people away, isolate hazard area and deny entry. Collect spillage. Avoid release to the environment. Only personnel trained for the hazards of this material should perform clean up and disposal.

6.2 Environmental Precautions

Collect spillage. Avoid release to the environment. In case of spillage, stop the flow of material and block any potential routes to water systems. Keep out of water supplies and sewers.

6.3 Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Avoid contact with eyes, skin and clothing. Only personnel trained for the hazards of this material should perform clean up and disposal. Collect spilled material using mechanical equipment.

6.4 References to Other Sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

Section 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Keep away from all ignition sources. Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8.

7.2 Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store in a cool, dry place. Store in a well-ventilated area. Keep separated from incompatible substances. Keep container tightly closed. Empty containers may contain product residue. Store and handle in accordance with all current regulations and standards. Avoid contact with oxidizing materials.

7.3 Specific end use(s)

The identified uses for this product are identified in Section 1.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Component Exposure Limits

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

Biological limit value

There are no biological limit values for any of this product's components.

8.2 Exposure Controls

Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles.

Skin Protection

Wear appropriate work clothing.

Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colorless, viscous liquid	Physical State	liquid
Odor	slight odor	Color	colorless
Odor Threshold	Not available	pH	Not available
Melting Point	Not determined	Boiling Point	Not determined
Freezing point	Not determined	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not applicable
Autoignition	Not determined	Flash Point	Not determined
Lower Explosive Limit	Non-explosive	Decomposition	Not available
Upper Explosive Limit	Non-explosive	Vapor Pressure	Not determined
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not determined
Water Solubility	284 mg/L (23 °C, pH 7)	Partition coefficient: n-octanol/water (Log Pow)	1.60 (23 °C)
Viscosity	112,000 mPa/s (23 °C)	Solubility (Other)	Not available
Density	1.222 g/cm ³ at 23 °C	Log KOW	Not determined
Physical Form	slightly viscous liquid	Molecular Formula	Proprietary
OSHA Flammability Class	Not flammable		

9.2 Other Information

No additional information available.

Section 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity hazard is expected.

10.2 Chemical Stability

Stable at normal temperatures and pressure.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4 Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

10.5 Incompatible Materials

oxidizing materials

10.6 Hazardous decomposition products

Oxides of carbon, low molecular weight hydrocarbons

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Informaiton on toxicological effects

Information on Likely Routes of Exposure

Inhalation

No information on significant adverse effects.

Skin Contact

No information on significant adverse effects.

Eye Contact

No information on significant adverse effects.

Ingestion

No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

Not available. Not expected to be toxic.

Immediate Effects

No information on significant adverse effects.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

Not expected to be irritating to the eyes and/or skin.

Respiratory Sensitization

No data available.

Dermal Sensitization

Not expected to be sensitizing.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA
Not classified.

Germ Cell Mutagenicity

Not classified.

Tumorigenic Data

No data available

Reproductive Toxicity

Not classified.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Low acute toxicity to aquatic organisms. Avoid release to the environment.

12.1 Toxicity

Component Analysis - Aquatic Toxicity (Estimated based on similar molecules)

Not available. Not expected to be toxic.

12.2 Persistence and Degradability

Readily biodegradable.

12.3 Bioaccumulative Potential

low potential to bioaccumulate

12.4 Mobility in soil

No information available for the product.

12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB according to EU criteria.

12.6 Other adverse effects

No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations. Regulations vary. Consult local authorities before disposal.

Disposal of Contaminated Packaging

No information available for the product.

13.1 Waste Treatment Methods

Liquid product should be incinerated in a licensed facility in accordance with local, state and federal regulations. Do not allow runoff to sewer, waterway or ground. Containers should be punctured with a non-sparking tool and disposed of in a licensed facility or landfill.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Not regulated for transport

IATA Information:

Not regulated for transport

IMDG Information:

Not regulated for transport

TDG Information:

Not regulated for transport

ADR/RID/ADN Information:

Not regulated for transport

14.1 UN Number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Section 15 - REGULATORY INFORMATION
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**EU Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

Section 16 - OTHER INFORMATION

SDS Version No. 1.0

Revision Date March 26, 2016

Summary of Changes

N/A - New product SDS

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information**Disclaimer:**

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The



Safety Data Sheet

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manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.