



Safety Data Sheet Endurathane 3245 PU Foam Part A

Updated April 2021

1. Identification of the Material and Supplier

Product Name: Endurathane 3245 PU Foam Part A
 Product Code: ENDURA3245-A
 UN Number: N/A
 DG Class: Not classed as a Dangerous Goods
 Shipping Name: N/A
 Packaging Group: N/A
 Hazchem Code: N/A
 Uses: Part A of a Polyurethane Foam System
 Company: H S Composites
 Address: 63 Hunua Road, Papakura, Auckland 2110
 Telephone: +64 (09) 295 2200
 Email: sales@hscomposites.co.nz
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2. Hazard Identification

Classified as Non-Hazardous, Polymers (Carcinogenic) Group Standard 2020.

HSNO Approval Number HSR002646
 Dangerous Goods Class Not classified as Dangerous Goods

Hazardous Classifications

Acutely Toxic (Oral)	Category 4
Acutely Toxic (Dermal)	Category 4
Skin Corrosion/Irritant	Category 1C
Serious Eye Damage/Eye Irritation	Category 2 (2A/2B)
Respiratory Sensitisation	Category 1
Skin Sensitisation	Category 1
Carcinogenicity	Category 2
Specific Target Organ Toxicity (Single Exposure)	Category 2

Specific Target Organ Toxicity (Repeat Exposure)	Category 1
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Pictograms:

Signal Word: **Danger**HEALTH HAZARDS:

H302	Harmful if Swallowed
H315	Causes Skin Irritation
H317	May cause allergic skin reaction
H319	Causes eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulty if inhaled
H350i	Suspected of causing Cancer through inhalation
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure

ENVIRONMENT HAZARDS:

H401	Toxic to Aquatic life.
H423	Harmful to the Soil Environment
H433	Harmful to Terrestrial Vertebrates

PRECAUTIONARY STATEMENTS: Preventions

P102	Keep out of reach of Children
P103	Read Label/SDS before use
P201	Obtain instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Do not breath dust/fumes/gas/mist/vapours/spray
P264	Wash hands and exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only in well-ventilated areas
P272	Contaminated work clothing should not leave work place
P280	Wear protective clothing, gloves, face and eye protection
P281	Use personal protective equipment as required

RESPONSE:

P101	If medical advice is needed, have product container or label at hand
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P301 + P312	If swallowed call POISON CENTRE or DOCTOR if you feel unwell
P330	Rinse out mouth, do not swallow
P302 + P352	If on skin, wash with plenty of soap and water
P332 + P313	If skin irritation occurs, get medical advice
P362	Take off contaminated clothing and wash before reuse
P304 + P340	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing
P305 + P351	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, continue to rinse
P337 + P313	If eye irritation persists seek medical advice
P308 + P313	If exposed or concerned seek medical advice
P314	Get medical advice if you feel unwell
P391	Collect any spillage

STORAGE:

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P235	Keep cool.
P405	Store in a locked area

DISPOSAL:

P501	Dispose of product and packaging in accordance with local and Governmental regulations or through an approved waste disposal plant.
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Dangerous Goods Classification Not Classified as Dangerous Goods

Packing Group N/A

Hazchem Code N/A

3. Composition / Information on Ingredients

Component	Cas No	Proportion
Isocyanic Acid, Polymethylenepolyphenylene Ester	9016-87-9	60-100%
4,4'-Methylenediethylphenyl Diisocyanate	101-68-8	30-60%

4. First Aid

For advice, contact the National Poisons Centre (Phone New Zealand: 0800 764 766) or a doctor, show Doctor in attendance a copy of this SDS.

Inhalation: Get medical attention immediately. Move the person to fresh air immediately. Keep warm and at rest until recovered.

Begin artificial respiration if breathing has stopped and get immediate medical assistance.

Swallowed: If swallowed, DO NOT induce vomiting. Rinse mouth do not swallow. Get medical advice. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain immediate medical attention/contact Poisons Centre 0800 764 766.

Skin Contact: If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before re-use. Get medical attention for any adverse effects.

Eye Contact: Hold eyelids apart and flush the eye continuously with running water for 15 minutes. Remove contact lenses after 5 minutes if present, and easy to do. Continue flushing. Get immediate medical attention if irritation persists.

First Aid facilities: Provide eye baths and safety showers close to areas where splashing may occur.

Note to Doctor/Physician: Treat symptomatically. Show Dr this notice.

5. Fire Fighting Measures

Flammable liquids and vapours: Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media: Use a suitable extinguishing agent for the surrounding fire.

Hazards from combustion products: Smoke, fume and carbon dioxide.

Precautions for fire fighters and special protective equipment: Full protective clothing and self-contained breathing apparatus.

Hazchem Code: N/A

Stop any run off into drains or sewers.

SPECIAL FIREFIGHTING PROCEDURES.

Wear full protective clothing and self-contained breathing apparatus in positive pressure mode. Prevent product and vapours from entering drains/sewers/water courses.

6. Accidental Release Measures

Steps to be taken if the material is released or spilled.

Evacuate personnel to a safe area. Use Protective equipment. Ensure adequate ventilation in area. Make sure there is no risk to self or personnel.

Eliminate all sources of ignition (flames, hot surfaces, electrical, static or frictional sparks, no smoking). Then ventilate the area.

Contain the area of spillage and pump material into drums for use or disposal. Absorb remainder of sand or perlite and place the saturated absorbent into closed containers and label for disposal.

Prevent contamination of storm-water drains and waterways. Inform local council and fire service should this happen.

Contaminated absorbent to be disposed of in accordance with appropriate local or governmental regulations or by licensed waste disposal agent.

Correctly label all material containers to be disposed of as it contains contaminated product.

7. Storage and Handling

Use Personal Protection. Avoid inhalation of vapour and contact with skin, eyes and clothing. Launder contaminated clothing before re-use, wash skin with soapy water. Wash hands thoroughly before eating.

Store in a locked and banded area, store away from direct heat (ideally 20 - 30°C to prevent spoilage). Keep containers tightly closed when not in use as product will react to moisture. Open drums slowly in case of internal pressure. Isolate from all potential sources of ignition including flames and electrical sparks.

Store separate from oxidising materials, peroxides and metal salts.

This product is sensitive to Heat, Light and Moisture.

Storage Temperature is 20 - 30°C.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Limits: Worksafe November 2020

Isocyanic Acid, Polymethylenepolyphenylene Ester (Cas# 9016-87-9) is 0.02mg/m³ TWA

4,4'-Methylenediethylphenyl Diisocyanate (Cas # 101-68-8) is 0.02mg/m³ TWA and 0.07mg/m³ STEL

General Use: This product is hazardous and should be used with a local exhaust ventilation to maintain vapour/dust concentration below WES level. If concentrations exceed exposure limit use organic vapour canister mask or approved air-line mask to maintain workshop limits.

Skin Protection: Wear overalls or other work clothing providing arm and leg cover. Use protective gloves (Latex or Nitrile). Use antistatic footwear.

Eye Protection: Safety goggles or splash mask.

Environmental Control: Prevent from entering into sewer, stormwater or waterways.

Respiratory Protection: Use a properly fitted face mask with an approved filter to cope with Isocyanates or an air-fed respirator.



9. Physical / Chemical Properties

Physical Description & colour:	Brown liquid.
Odour:	Oil like odour.
Boiling Point:	200°C
Flash Point:	230°C
Flammable Limits:	Not Flammable
Relative Density:	1.2
Vapour Density:	3.6
Percent Volatiles:	Nil
Water Solubility:	Reacts with water

10. Stability and Reactivity

Stability:	Stable under normal storage and handling conditions.
Conditions to avoid:	Exposure to sunlight and moisture/water.
Materials to avoid:	Water, acid, bases, alcohols, metal compounds and surface-active materials.
Polymerisation:	May occur with incompatible reactants, especially strong bases, water or temperatures over 160°C

11. Toxicological Information

When used under properly controlled conditions, within workplace exposure limits and with adequate ventilation and protective equipment, no adverse health effects are to be expected.

Acute effects of over exposure.

If Swallowed: Harmful by ingestion and may cause irritation to the mouth, throat, symptoms of nausea, vomiting and gastric disturbance. Get medical assistance.

Eye Contact: Causes serious eye irritation. Tearing, stinging, blurred vision and redness will occur if.

Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Inhalation of Vapour: Harmful if inhaled. Causes damage to organs following a single exposure. May cause an allergy or asthma symptoms and/or breathing difficulties. Serious effects may be delayed following exposure.

Chronic effects of overexposure:

Once sensitized to this product a severe allergic reaction may occur when subsequently exposed even at very low levels.

Suspected of causing Cancer.

May cause damage to organs through prolonged exposure.

12. Ecological Data

Prevent the product from entering storm-water drains, sewers or waterways.

Other ecological data is not available.

13. Disposal Considerations

P501	Dispose of product and packaging in accordance with local regulations or through an approved waste disposal plant.
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Empty containers may contain residues/vapours.

Dangerous Goods Classification Not classified as a Dangerous Goods

Packing Group N/A

Hazchem Code N/A

14. Transport Information

UN Number:	N/A
Proper Shipping Name:	N/A
Hazchem Code:	N/A
Dangerous Goods Class:	Not Dangerous Goods
Packing Group:	N/A
Tunnel Restriction:	
Marine Pollutant:	No
Special Precautions for users:	223

EMS Number

IERG Code

DO NOT LOAD WITH – Explosives, toxic gases, spontaneously combustible substances, oxidisers or organic peroxides.

15. Regulatory Information

EPA New Zealand HSNO approval code HSR002502.

SDS To be available within 10 minutes when required.

16. Other Information

This SDS contains only safety-related information. For other data see product information literature.

Group Standard	October 2020
LEL	Lower explosive limit
UEL	Upper explosive limit
TWA	Time weighted average over 8 hr working day
STEL	Short term expose limit
Cas #	Unique registered number for chemicals
ppm	parts per million
mg/m ³	milligram per cubic meter
UN number	Individual number assigned to hazardous materials
EMS	Emergency response for shipping
ERG	Emergency code for first responders
Other References	Supplier SDS's

Review: March 2021

Reason: Updates and pictograms

Disclaimer: The information given in this safety data sheet is given in good faith and is believed to be valid and accurate at the time of publication. However, no responsibility is accepted for accident or injury which may occur from omissions or from information contained in the data sheet.

HS Composites 03/21