

## SAFETY DATA SHEET

# **Tuffbond 316A**

#### **SECTION 1: IDENTIFICATION**

#### 1.1. **Product identifier**

Trade name: Product no.:

Tuffbond 316A

MS-316A

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

Relevant identified uses of the substance or mixture: Uses advised against :

Adhesive Restricted to professional users.

None known.

#### 1.3. Details of the supplier of the safety data sheet

Company and address:

Hernon Manufacturing Inc 121 Tech Drive FL 32771 Sanford USA T: +1-407-322-4000 www.hernon.com Hernon SDS Coordinator customerservice@hernon.com

Contact person: E-mail: SDS date: SDS Version:

3/26/2025 1.0

#### **Emergency telephone number** 1.4.

Contact the poison control at 1-800-222-1222 (24/7) or use the webpoisoncontrol (triage.webpoisoncontrol.org) to get specific guidance for your case.

VelocityEHS: +1-800-255-3924 (USA) +1-813-248-0585 (International) 1-300-954-583 (Australia) 0-800-591-6042 (Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800-099-0731 (Mexico) Contract #: (MIS0002665)

## SECTION 2: HAZARD(S) IDENTIFICATION

#### **OSHA/HCS** status

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

#### Classification of the substance or mixture 2.1.



	Skin Irrit. 2; H315, Causes skin irritat Skin Sens. 1; H317, May cause an all Eye Irrit. 2; H319, Causes serious ey Carc. 1B; H350, May cause cancer.	ergic skin reaction.
2.2.	Label elements	
	Hazard pictogram(s):	
	Signal word:	Danger
	Hazard statement(s):	Causes skin irritation. (H315) May cause an al <mark>lergic skin</mark> reaction. (H317) Causes serious eye irritation. (H319) May cause cancer. (H350)
	Precautionary statement(s):	
	General:	-
	Prevention:	Obtain special instructions before use. (P201) Avoid breathing mist/vapour. (P261) Wash hands thoroughly after handling. (P264) Contaminated work clothing should not be allowed out of the workplace. (P272) Wear eye protection/protective clothing. (P280)
	Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338) IF exposed or concerned: Get medical advice/attention. (P308+P313) If skin irritation or rash occurs: Get medical advice/attention. (P333+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)
	Storage:	-
	Disposal:	Dispose of contents/container in accordance with local regulation (P501)
	Additional labelling:	Restricted to professional users.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable. This product is a mixture.

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Bisphenol-A- (epichlorohydrin)	CAS No.: 25068-38-6		Skin Irrit. 2, H315 (SCL: 5.00 %) Skin Sens. 1, H317	



			Eye Irrit. 2, H319 (SCL: 5.00 %)	
Carbon black	CAS No.: 1333-86-4	<0.25%		[19]

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### **Other information**

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

## SECTION 4: FIRST-AID MEASURES

#### 4.1. Description of first aid measures

General information:	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's
	co <mark>ndition or if</mark> the symptoms persist. Never give an unconscious person water or other drink.
Inhalation:	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
Skin contact:	Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
Eye contact:	If skin irritation occurs: Get medical advice/attention. If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.
Ingestion:	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.
	In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
Burns:	Not applicable.

#### 4.2. Most important symptoms and effects, both acute and delayed

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal



contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

# **4.3.** Indication of any immediate medical attention and special treatment needed IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### **5.2.** Special hazards arising from the substance or mixture Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fireextinguishing water to enter the sewage system and nearby surface waters.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures** Avoid direct contact with spilled substances. Ensure adequate ventilation, especially in confined areas. Contaminated areas may be slippery.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

#### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

**6.4. Reference to other sections** See section 13 "Disposal considerations" on handling of waste. See section 8 "Exposure controls/personal protection" for protective measures.

#### SECTION 7: HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Avoid direct contact with the product. Avoid contact during pregnancy and while nursing.



Smoking, drinking and consumption of food is not allowed in the work area. See section 8 "Exposure controls/personal protection" for information on personal protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store locked up. A sign warning of toxic materials shall be affixed the room and cupboard containing the product(s).

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:* 

Always store in containers of the same material as the original container.

Storage conditions:

Keep at temperatures between 7 and 29 °C. Dry, cool and well ventilated Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Smoking, drinking and consumption of food is not allowed

Incompatible materials:

Acids Bases Amines Strong oxidizing agents

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Carbon black

Long term exposure limit (OSHA Table Z-1) (mg/m<sup>3</sup>): 3.5 Long term exposure limit (ACGIH TLV) (mg/m<sup>3</sup>): 3 (Inhalable) Long term exposure limit (NIOSH REL) (mg/m<sup>3</sup>): 3.5 (without PAHs); when PAHs are present, NIOSH considers carbon black to be a potential occupational carcinogen.

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

#### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

*Exposure scenarios: Exposure scenarios: There are no exposure scenarios implemented for this product. Exposure limits: Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above. Appropriate technical measures:* Do not recirculate outlet air that contain the substances. The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and

emergency showers are clearly marked.



Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:	Take off contaminated clothing and wash it before reuse.
Measures to avoid environmental exposure:	Keep damming materials near the workplace. If possible, collect spillage during work.

#### Individual protection measures, such as personal protective equipment

Generally:
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Use only protective equipment with a recognized certification mark, e.g. the UL mark.

#### Respiratory Equipment:

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### Skin protection:

Skin protection.			
Recommended	Type/Category	Standards	
-	Protective Clothing		R
Hand protection: Nitrile Rubber			
Eye protection:			
Туре	Standards		

Safety glasses with side shields.	туре	Standards		
	Safety glasses with side shields.	EN166		

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Black
Odor:	Unpleasant
Odor threshold (ppm):	No data available
рН:	No data available
Density (g/cm³):	1.17
Kinematic viscosity:	No data available
Particle characteristics:	No data available
Phase changes	
Melting point/freezing point (°F):	No data available
Softening point/range (°F):	Does not apply to liquids.
Boiling point (°F):	>300
Boiling point (°C):	>149



	Vapor pressure:	>50.0 mmHg (80 °F)
	Relative vapor density:	No data available
	Decomposition temperature (°F):	No data available.
Data	on fire and explosion hazards	
	Flash point (°F):	>200
	Flash point (°C):	>93.3
	Flammability (°F):	No data available
	Auto-ignition temperature (°F):	No data available
	Explosion limits (% v/v):	No data available.
Solub	bility	
	Solubility in water:	Slightly soluble
	n-octanol/water coefficient (LogKow):	No data available
	Solubility in fat (g/L):	No data <mark>avai</mark> lable
9.2.	Other information	
	Evaporation rate (n-butylacetate = 100):	No data available
	Other physical and chemical parameters:	No data available.
	Oxidizing properties:	No data available

#### SECTION 10: STABILITY AND REACTIVITY

# 10.1. Reactivity

No data available.

#### **10.2.** Chemical stability The product is stable under the conditions, noted in section 7 "Handling and storage".

# 10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies None known.

None knowi

#### **10.4. Conditions to avoid** Incompatible Materials Extremes of temperature Store away from heat, sparks, flames, or other sources of ignition.

#### **10.5. Incompatible materials** Acids Bases Amines Strong oxidizing agents

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



#### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### **Respiratory sensitisation**

Based on available data, the classification criteria are not met.

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

May cause cancer.

#### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, th<mark>e classificati</mark>on criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### Other information

Carbon black has been classified by IARC as a group 2B carcinogen.

#### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

No data available.

#### **12.2. Persistence and degradability** Based on available data, the classification criteria are not met.

#### 12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.



#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

#### RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

#### Specific labelling

#### **Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

#### **SECTION 14: TRANSPORT INFORMATION**

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informat ion:
DOT	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-(epichlorohydrin) )	Transport hazard class: 9 Label: 9 Classification code: M6	III	No	Limited quantitie s: 5 L Tunnel restrictio n code: (-) See below for additiona l informati on.
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-(epichlorohydrin) )	Transport hazard class: 9 Label: 9 Classification code: M6	III	No	Limited quantitie s: 5 L EmS: F-A S-F See below for additiona I informati on.



	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informat ion:
ΙΑΤΑ	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-(epichlorohydrin) )	Transport hazard class: 9 Label: 9 Classification code: M6	III	No	See below for additiona l informati on.

\* Packing group

\*\* Environmental hazards

#### Additional information

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of DOT/IMDG/IATA provided the packaging's meet the general specifications for packaging: Part 178 (DOT) / 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).

DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport. IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

- **14.6.** Special precautions for user Not applicable.
- **14.7.** Transport in bulk according to IMO instruments No data available.

#### SECTION 15: REGULATORY INFORMATION

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2. U.S. Federal regulations

TSCA (the non-confidential portion):	Bisphenol-A-(epichlorohydrin) is listed Carbon black is listed
Clean Air Act:	None of the components are listed
EPCRA Section 302:	None of the components are listed
EPCRA Section 304:	None of the components are listed
EPCRA section 313:	None of the components are listed
CERCLA:	None of the components are listed
Hazardous chemical inventory reporting:	This product is subject to Tier II reporting.

#### **State regulations**



	s to OSHA Hazard Communication Standard (HC	
	California / Prop. 65:	Carbon black is known to cause: Cancer
	Massachusetts / Right To Know Act:	— Carbon black is listed
	New Jersey / Right To Know Act:	Carbon black / Substance number: 0342 Carbon black is on the Special Health Hazard Substance List
	New York / Right To Know Act:	— None of the components are listed
	Pennsylvania / Right To Know Act:	Carbon black is listed
		_
15.4.	<b>Restrictions for application</b> Restricted to professional users. Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must	
	be considered.	
15.5.	<b>Demands for specific education</b> No specific requirements.	n
15.6.	Additional information Not applicable.	
15.7.	<b>Chemical safety assessment</b> No	
15.8.	Sources	
	OSHA Hazard Communication Stan	dard (29 CFR 1910.1200)
SECTI	ON 16: OTHER INFORMATION	
	ext of H-phrases as mentioned in H315, Causes skin irritation. H317, May cause an allergic skin re H319, Causes serious eye irritation.	eaction.
The f	ull text of identi <mark>fied</mark> uses as men	itioned in section 1

None known.

#### Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System



HNOC = Hazards Not Otherwise Classified IARC = International Agency for Research on Cancer IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health OECD = Organisation for Economic Co-operation and Development OSHA = Occupational Safety and Health Administration PBT = Persistent, Bioaccumulative and Toxic RCRA = Resource Conservation and Recovery Act RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SARA = Superfund Amendments and Reauthorization Act SCL = A specific concentration limit. STEL = Short-term exposure limits STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TSCA = The Toxic Substances Control Act TWA = Time weighted average UN = United Nations UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

#### The safety data sheet is validated by

The safety data sheet has not been validated

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en