

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier:  
**Astrolane EZ Basecoat Resin**  
  
Product Code: 62860100000-R
- 1.2. Relevant identified uses of the mixture and uses advised against:  
Two pack performance coatings. Restricted to professional users.
- 1.3. Details of the supplier of the safety data sheet:  
**Brunswick Bowling Products, LLC**  
525 W. Laketon Ave.  
Muskegon, MI 49441. USA
- 1.3.1. Responsible person: -  
E-mail: [brunswick.hu@brunswickbowling.com](mailto:brunswick.hu@brunswickbowling.com)
- 1.4. Emergency telephone number: 24 hour Emergency Telephone No.: CHEMTEL +1 813-248-0585  
Customer Service: Brunswick Bowling Products, LLC: 231-725-4966

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the mixture:  
  
Classification according to Regulation 1272/2008/EC (CLP):  
Flammable Liquids 3 – H226

Warning **H statements:**  
**H226** – Flammable liquid and vapour.

- 2.2. Label elements:



Warning **H statements:**  
**H226** – Flammable liquid and vapour.

Precautionary **P statements:**  
**P210** – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P235** – Keep cool.  
**P240** – Ground/bond container and receiving equipment.  
**P241** – Use explosion-proof electrical/ventilating/lighting equipment.  
**P242** – Use only non-sparking tools.  
**P243** – Take precautionary measures against static discharge.  
**P280** – Wear protective gloves/ eye protection/face protection.  
**P303 + P361 + P353** – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**P370 + P378** – In case of fire: Use extinguishing media listed in section 5 of SDS to extinguish.  
**P403 + P233** – Store in a well-ventilated place. Keep container tightly closed.  
**P501** – Dispose of contents/container in accordance with local / national regulations.

- 2.3. Other hazards:  
The product has no other known specific hazards for human or environment.  
Results of PBT and vPvB assessment: this product contains no PBT/vPvB chemicals.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1. Substance:  
Not applicable.

3.2. Mixture:

Description	CAS number	EU number	REACH reg. nr.	Conc. (%)	Classification: 1272/2008/EC (CLP)		
					Hazard pict.	Hazard cat.	H phrase
<b>Castor oil*</b>	8001-79-4	232-293-8	-	75 – 100	-	not classified	-

\*: Substance classified by the manufacturer or substance which has no obligatory classification according to the EU regulations.

For the full text of H phrases: see Section 16.

**SECTION 4: FIRST AID MEASURES**

4.1. Description of first aid measures:

General:

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

IN CASE OF INGESTION:

Measures:

- Not an expected route of exposure.

IN CASE OF INHALATION:

Measures:

- Remove to fresh air, keep patient warm and at rest.
- If breathing is irregular or stopped, give artificial respiration.
- If unconscious place in the recovery position and obtain immediate medical attention.
- Give nothing by mouth.

IN CASE OF SKIN CONTACT:

Measures:

- Wash immediately with soap and water, removing contaminated clothes and shoes.
- Wash contaminated clothing before reuse.
- In case of skin irritation or allergic reactions, see a physician.

IN CASE OF EYE CONTACT:

Measures:

- In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 15 minutes).
- Obtain medical help.

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

**Protection of First-Responders:**

Avoid contact with skin, eyes and clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; use artificial respiration with the aid of a pocket mask equipped with a one-way valve or other respiratory medical device.

4.3. Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES**

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

Foam, CO<sub>2</sub>, dry chemical.

5.1.2. Unsuitable extinguishing media:

None known.

5.2. Special hazards arising from the substance or mixture:

Thermal decomposition can lead to the release of irritating gases and vapors.

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

5.3. Advise for firefighters:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame.

Closed containers may explode when exposed to extreme heat.

Use self-contained breathing apparatus.

Use water for cooling container to prevent pressure build up, auto-ignition, or explosion.  
Avoid the spread of burning liquid with water.  
ERG Guide No. 127

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:
- 6.1.1. For non-emergency personnel:  
Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.
- 6.1.2. For emergency responders:  
Eliminate sources of ignition; keep away from open flame and extreme heat.  
Full encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.  
Avoid contact with skin, eyes and clothing.  
Avoid prolonged breathing of vapors.
- 6.2. Environmental precautions:  
Do not allow spills to enter drains or watercourses.  
If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.
- 6.3. Methods and material for containment and cleaning up:  
Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.  
Collect the spilled product with non-combustible absorbent (e.g. sand, earth, and vermiculite), then place into a suitable, closed, properly labelled chemical waste container for removal/disposal.  
Clean, preferably with a detergent. Do not use solvents.
- 6.4. Reference to other sections:  
For further and detailed information see section 8 and 13.

## SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:  
Observe conventional hygiene precautions.  
Wash hands before eating, drinking, smoking or using toilet.  
Promptly remove soiled clothing and wash thoroughly before reuse.  
Use personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Technical measures:  
No special measures required.  
Precautions against fire and explosion:  
Keep away from heat / sparks / open flames / hot surfaces - No smoking.  
Keep cool.  
Ground / bond container and receiving equipment.  
Use explosion-proof electrical / ventilating / light / equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
See section 2 for further details.
- 7.2. Conditions for safe storage, including any incompatibilities:  
Technical measures and storage condition:  
Handle containers carefully to prevent damage and spillage.  
Store in a well-ventilated place.  
Keep cool.  
Incompatible materials: none known.  
Packaging material: no special prescriptions.  
See section 2 for further details.
- 7.3. Specific end use(s):  
No specific instructions available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control parameters:  
  
Occupational exposure limit values:  
The components of the mixture are not regulated with exposure limit value.

DNEL		Routes of exposure	Exposure frequency:	Remarks:
Worker	Consumer			
no data available	no data available	Dermal	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Inhalative	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Oral	Short term (acute) Long term (repeated)	no data available

PNEC			Exposure frequency:	Remarks:
Water	Soil	Air		
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available

## 8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

### 8.2.1. Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn. Provide eye bath and safety shower. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

### 8.2.2. Individual protection measures, such as personal protective equipment:

1. Eye/face protection: use appropriate protective glasses with side shields (EN 166).
2. Skin protection:
  - a. Hand protection: use appropriate chemical resistant protective gloves (where risk of splashing) (EN 374).
  - b. Other: use appropriate chemical resistant protective boots and apron (where risk of splashing).
3. Respiratory protection: 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.
4. Thermal hazards: none known.

### 8.2.3. Environmental exposure controls:

No specific prescription.

**The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert's advice should be sought out before deciding upon further protective measures.**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Parameter	Test method:	Remarks:
1. <b>Appearance:</b>		light yellow liquid
2. <b>Odour:</b>		mild, solvent
3. Odour threshold:		no data available
4. pH value:		no data available
5. Melting point/ freezing point:		no data available
6. Initial boiling point and boiling range:		150-313,8 °C (302-597 °F)

7. Flash point:	45 °C/113 °F	TCC
8. Evaporation rate:	no data available	
9. Flammability (solid, gas):	not applicable	
10. Upper/lower flammability or explosive limits:	Lower: 0,6 % Upper: 14 %	
11. Vapour pressure:	no data available	
12. Vapour density:	no data available	
13. Relative density:	1,2	
14. Solubility(ies):	no data available	
15. Partition coefficient: n-octanol/water:	no data available	
16. Auto-ignition temperature:	no data available	
17. Decomposition temperature:	no data available	
18. Viscosity:	no data available	
19. Explosive properties:	no data available	
20. Oxidizing properties:	no data available	
9.2. <u>Other information:</u>		
No data available.		

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:  
Polymerization can occur.
- 10.2. Chemical stability:  
Stable within normal temperature and general work conditions.
- 10.3. Possibility of hazardous reactions:  
None known.
- 10.4. Conditions to avoid:  
Keep away from open flames, hot surfaces and sources of ignition. No smoking.  
Take precautionary measures against static discharge.
- 10.5. Incompatible materials:  
None known.
- 10.6. Hazardous decomposition products:  
Thermal decomposition can lead to the release of irritating gases and vapors.

## SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects:  
Acute toxicity: none known.  
Skin corrosion/irritation: none known.  
Serious eye damage/eye irritation: none known.  
Respiratory or skin sensitisation: none known.  
Germ cell mutagenicity: none known.  
Carcinogenicity: none known.  
Reproductive toxicity: none known.  
STOT-single exposure: none known.  
STOT-repeated exposure: none known.  
Aspiration hazard: none known.
- 11.1.1. For substances subject to registration, brief summaries of the information derived from the test conducted:  
No data available.
- 11.1.2. Relevant toxicological properties of the hazardous substances:  
Acute toxicity: no data available.  
Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).  
Carcinogen data:

CAS No.	Ingredient	Source	Value
8001-79-4	Castor oil	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No

- 11.1.3. Information on likely routes of exposure:  
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:  
No data available.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:  
No data available.

- 11.1.6. Interactive effects:  
No data available.
- 11.1.7. Absence of specific data:  
No information.
- 11.1.8. Other information:  
No data available.

## SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:  
No data available.
- 12.2. Persistence and degradability:  
No data available.
- 12.3. Bioaccumulation potential:  
No data available.
- 12.4. Mobility in soil:  
No data available.
- 12.5. Results of PBT and vPvB assessment:  
This product contains no PBT/vPvB chemicals.
- 12.6. Other adverse effects:  
No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods:  
Disposal according to the local regulations.
- 13.1.1. Information regarding the disposal of the product:  
Observe all federal, state and local regulations when disposing of this product.  
European Waste Code:  
For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The European waste code number has to be determined after a discussion with a specialist dealing with waste disposal.
- 13.1.2. Information regarding the disposal of the packaging:  
Dispose according to the relevant regulations.
- 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:  
None known.
- 13.1.4. Sewage disposal:  
None known.
- 13.1.5. Special precautions for any recommended waste treatment:  
No data available.

## SECTION 14: TRANSPORT INFORMATION

- 14.1. UN Number:  
1263
- 14.2. UN proper shipping name:  
PAINT
- 14.3. Transport hazard class(es):  
3  
Packing Instruction: 355
- 14.4. Packaging group:  
III
- 14.5. Environmental hazards:  
Marine Pollutant: no.
- 14.6. Special precautions for user:  
No relevant information available.
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:  
Not applicable.

## SECTION 15: REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:  
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation 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

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

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2. Chemical safety assessment: no information available.

#### SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet:

The safety data sheet has been revised according to Regulation (EU) 2015/830 (Section 1-16).

Full text of the abbreviations in the safety data sheet:

DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenicity, mutagenicity and toxicity for reproduction. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent, Very Bioaccumulative. n.d.: not defined. n.a.: not applicable.

Data sources:

previous version of the safety data sheet (11. 09. 2016.)

Methods used for the classification according to Regulation 1272/2008/EC:

Flammable Liquids 3 – H226

Based on test methods (test data)

Relevant H-Phrases (number and full text) of Section 2 and 3:

**H226** – Flammable liquid and vapour.

Training advice: no data available.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product. It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by: ToxInfo Kft.

Professional help regarding the explanation of the safety data sheet:  
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