

SAFETY DATA SHEET

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

- 1.1. Product identifier:
Wizard 31 Epoxy Ball Plug Hardener
- Alternate Names:
 Part Numbers: 66-440027-256 /66-440028-256 /66-440025-064 /66-440125-064/66-440046-011,
 Wizard 31 Epoxy Ball Plug Hardener
- 1.2. Relevant identified uses of the mixture and uses advised against:
 Bowling ball plug hardener for professional use.
- 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
- 1.4. Emergency telephone number: 24 hour Emergency Telephone No.: CHEMTEL +1 813-248-0585
 Customer Service: Brunswick Bowling Products LLC: 231-725-4966
- National Poisons Information Centre (NPI)**
 01 8092566; 01 8379964

SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the mixture:
- Classification according to Regulation 1272/2008/EC (CLP):
 Skin corrosion/irritation, Hazard Category 1 – H314
 Sensitisation - Skin, hazard category 1 – H317
 Serious eye damage/eye irritation, Hazard Category 1 – H318
 Reproductive toxicity, Hazard Category 1B – H360Df
 Hazardous to the aquatic environment – Chronic Hazard, Category 3 – H412

Warning H statements:

- H314** – Causes severe skin burns and eye damage.
H317 – May cause an allergic skin reaction.
H318 – Causes serious eye damage.
H360Df – May damage the unborn child. Suspected of damaging fertility.
H412 – Harmful to aquatic life with long lasting effects.

- 2.2. Label elements:

Components which define the hazards: Dibutyl phthalate; Polyoxypropylenediamine; Triethylene tetramine

GHS05



GHS07



DANGER

GHS08



Warning H statements:

- H314** – Causes severe skin burns and eye damage.
H317 – May cause an allergic skin reaction.
H360Df – May damage the unborn child. Suspected of damaging fertility.

H412 – Harmful to aquatic life with long lasting effects.

Precautionary P statements:

P202 – Do not handle until all safety precautions have been read and understood.

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 – Avoid release to the environment.

P280 – Wear protective gloves/eye protection/face protection.

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

P304 + P340 + P312 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 + P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P308 + P313 – IF exposed or concerned: Get medical advice/attention.

P321 – Specific treatment (see information on this label).

P405 – Store locked up.

P501 – Dispose of contents/container in accordance with local/national regulations.

Restricted to professional users.

50-75 percent of the mixture consists of ingredient(s) of unknown toxicity.

2.3. Other hazards:

The product has no other known specific hazards for human or environment.

The product contains no PBT/vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance:

Not applicable.

3.2. Mixture:

The product contains the following substances that present a hazard within the meaning of the relevant regulations.

Description	CAS number	EU number / ECHA list number	REACH reg. nr.	Conc. (%)	Classification: 1272/2008/EC (CLP)		
					Hazard pict.	Hazard cat.	H phrase
1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl p-tolyl ether*	68411-70-1	-	-	50 – 75	-	-	-
Polyoxypropylene-diamine*	9046-10-0	-	-	10 – 25	GHS05 Danger	Skin Corr. 1	H314
Triethylene tetramine Index number: 612-059-00-5	112-24-3	203-950-6	-	10 – 25	GHS05 GHS07 Danger	Acute Tox. 4 Skin Corr. 1B Skin Sens. 1 Aquatic Chronic 3	H312 H314 H317 H412
Dibutyl phthalate (DBP)** Index number: 607-318-00-4	84-74-2	201-557-4	-	1 – 5	GHS08 GHS09 Danger	Repr. 1B Aquatic Acute 1	H360Df H400

*: Classification specified by the manufacturer, the substance is not listed in Annex VI of the Regulation (EC) No 1272/2008.

** : Substance having occupational exposure limit value.

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General information: 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:

- If swallowed obtain immediate medical attention.
- Keep victim at rest.
- Do NOT induce vomiting.

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:

- Remove contaminated clothing.
- Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- If skin irritation or rash occurs: Get medical advice/attention.

IN CASE OF EYE CONTACT:

Measures:

- Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

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

Eyes: Causes serious eye damage.

Skin: May be harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns and eye damage.

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

No special treatment needed; treat symptomatically. See section 2 for further details.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

Alcohol-resistant foam, carbon dioxide (CO₂), dry chemical, dry sand, limestone powder.

5.1.2. Unsuitable extinguishing media:

Do not use water directly on fire. Use water spray to cool down fire-exposed containers. Water spray may cause frothing.

5.2. Special hazards arising from the substance or mixture:

Hazardous decomposition: Incomplete combustion may form carbon monoxide. May generate ammonia.

Avoid breathing dust/fume/gas/mist/vapours/spray.

5.3. Advise for firefighters:

Wear full protective clothing and self-contained breathing apparatus.

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:

Wear appropriate personal protective equipment (see section 8).

Use good personal hygiene practices.

Wash hands before eating, drinking, smoking or using toilet.

Promptly remove soiled clothing and wash thoroughly before reuse.

6.2. Environmental precautions:

Dispose the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

- 6.3. Methods and material for containment and cleaning up:
SMALL SPILL: Remove spillage by absorbing in absorbent material.
LARGE SPILL: If possible, stop flow of product. Construct dike to prevent spreading. Place in appropriate chemical waste container and dispose of in accordance with all local, regional and national regulations.
- 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.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before reuse.
Handle containers carefully to prevent damage and spillage.
Do not use sodium nitrite or other nitrosating agents. Suspected cancer causing nitrosamines could be formed.
Avoid contact with skin and eyes.
Adhere to work practice rules established by national regulations.
Avoid breathing vapours and/or aerosols.
Use personal protective equipment.
When using, do not eat, drink or smoke.
See section 2 for further details.
Technical measures:
Emergency showers and eye wash stations should be readily accessible.
Use only in well-ventilated areas.
Precautions against fire and explosion:
No special measures required.
- 7.2. Conditions for safe storage, including any incompatibilities:
Technical measures and storage condition:
Store in a tightly closed container.
Store in a cool, dry, well-ventilated area away from incompatible materials.
STORAGE TEMPERATURE: 16 – 27 °C.
Store locked up.
Incompatible materials: see section 10.5.
Packaging material: no special prescriptions.
- 7.3. Specific end use(s):
No specific instructions available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control parameters:

Occupational exposure limit values (S.I. No. 619 of 2001):
Dibutyl phthalate (DBP) (CAS: 84-74-2):
8 hours: 5 mg/m³
15 minutes: 10 mg/m³
- Recommendation of the supplier:
Triethylene tetramine (CAS: 112-24-3):
AIHA WEEL 8h TWA: 1 ppm

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
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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 vapour below occupational exposure limits suitable respiratory protection must be worn.

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

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.

1. Eye/face protection: wear safety glasses with side shields to protect the eyes (EN 166). An eye wash station is suggested as a good workplace practice.

2. Skin protection:

a. Hand protection: wear PVC or rubber gloves to keep skin contact to a minimum (EN 374). Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

b. Other: no special prescriptions.

3. Respiratory protection: in case of adequate ventilation not necessary. If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

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 PROPERTIES9.1. **Information on basic physical and chemical properties:**

Parameter		Test method:	Remarks:
1. Appearance:	amber, medium viscosity liquid		
2. Odour:	amine odour		
3. Odour threshold:	no data available*		
4. pH:	alkaline		
5. Melting point/freezing point:	not applicable		
6. Initial boiling point and boiling range:	277 °C		
7. Flash point:	118 °C	PMCC	
8. Evaporation rate:	no data available*		
9. Flammability (solid, gas):	not applicable		
10. Upper/lower flammability or explosive limits:	no data available*		
11. Vapour pressure:	< 13 mmHg	21 °C	

12. Vapour density:	< 13
13. Relative density:	no data available*
14. Solubility(ies):	no data available*
15. Partition coefficient: n-octanol/water:	no data available*
16. Auto-ignition temperature:	294 °C
17. Decomposition temperature:	not applicable
18. Viscosity:	not applicable
19. Explosive properties:	no data available*
20. Oxidizing properties:	no data available*

9.2. Other information:

VOC content: 109.000

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet.

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:
Hazardous polymerization will not occur.
- 10.2. Chemical stability:
Stable under normal circumstances.
- 10.3. Possibility of hazardous reactions:
See Section 10.5.
- 10.4. Conditions to avoid:
No conditions to avoid known.
- 10.5. Incompatible materials:
Mineral or organic acids, oxidizing agents, aldehydes, ketones and organic halides.
- 10.6. Hazardous decomposition products:
Incomplete combustion may form carbon monoxide. May generate ammonia.

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 severe skin burns.
Serious eye damage/eye irritation: Causes severe eye damage.
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: May damage the unborn child. Suspected of damaging fertility.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.
- 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:
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.
Polyoxypropylenediamine (CAS: 9046-10-0):
LD50 (oral, rat): 2885 mg/kg
LD50 (dermal, rabbit): 2980 mg/kg
Triethylene tetramine (CAS: 112-24-3):
LD50 (oral, rat): 2780 mg/kg
LD50 (dermal, rabbit): 550 mg/kg
Dibutyl phthalate (DBP) (CAS: 84-74-2):
LD50 (oral, rat): 8000 mg/kg
LD50 (dermal, rabbit): 20860 mg/kg
Carcinogenicity:
1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl p-tolyl ether (CAS: 68411-70-1):
OSHA: not listed.
NTP: not listed.
IARC: not listed.

Polyoxypropylenediamine (CAS: 9046-10-0):

OSHA: not listed.

NTP: not listed.

IARC: not listed.

Triethylene tetramine (CAS: 112-24-3):

OSHA: not listed.

NTP: not listed.

IARC: not listed.

Dibutyl phthalate (DBP) (CAS: 84-74-2):

OSHA: not listed.

NTP: not listed.

IARC: not listed.

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:

Eyes: Causes serious eye damage.

Skin: May be harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns and eye damage.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May damage the unborn child. Suspected of damaging fertility.

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 INFORMATION12.1. Toxicity:

Harmful to aquatic life with long lasting effects.

Aquatic ecotoxicity:

Polyoxypropylenediamine (CAS: 9046-10-0):LC50, fish (*Oncirhynchus mykiss*): 15 mg/l/96hEC50, crustacean (*Daphnia magna*): 80 mg/l/48hErC50, algae (*Pseudokirchneriella subcapitata*): 2.1 mg/l/72h**Triethylene tetramine** (CAS: 112-24-3):LC50, fish (*Pimephales promelas*): 495 mg/l/96hEC50, crustacean (*Daphnia magna*): 33.9 mg/l/48hErC50, algae (*Selenastrum capricornutum*): 20 mg/l/72h**Dibutyl phthalate (DBP)** (CAS: 84-74-2):LC50, fish (*Lepomis macrochirus*): 0.48 mg/l/96hEC50, crustacean (*Daphnia magna*): 2.99 mg/l/48hErC50, algae (*Scenedesmus subspicatus*): 0.21 mg/l/96h12.2. 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:

The product contains no PBT/vPvB substances.

12.6. Other adverse effects:

Toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS13.1. Waste treatment methods:

Disposal according to the local regulations.

13.1.1. Information regarding the disposal of the product:

Observe all national, regional and local regulations.

For this product no waste disposal key according to 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:
No special recommendation from the manufacturer.
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:
ADR/RID; IMDG; IATA:
UN 2735
- 14.2. UN proper shipping name:
ADR/RID:
AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylene tetramine, Epoxy-polyamine adduct, Polyetheramine)
IMDG; IATA:
AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylene tetramine, Epoxy-polyamine adduct, Polyetheramine)
- 14.3. Transport hazard class(es):
ADR/RID:
Class: 8
IMDG:
Class: 8
Subclass: 9
IATA:
Class: 8
- 14.4. Packaging group:
ADR/RID; IMDG; IATA:
II
- 14.5. Environmental hazards:
IMDG:
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)

The mixture contains a component, which is listed in Annex XVII of the Regulation 1907/2006/EC of the European Parliament and of the Council, therefore it is subject to restrictions:

Classified as toxic to reproduction (item 30)

Dibutyl phthalate (DBP) (CAS: 84-74-2) (51. b item)

The mixture contains a component, which is listed in Annex XIV of the Regulation 1907/2006/EC of the European Parliament and of the Council (substances subject to authorisation):

Dibutyl phthalate (DBP) (CAS: 84-74-2)

SVHC (Substances of Very High Concern) substances:

Dibutyl phthalate (DBP) (CAS: 84-74-2)

15.2. Chemical safety assessment: no information available.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: none.

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. ADR: European agreement concerning the carriage of dangerous goods by road. RID: Regulation concerning the international transport of dangerous goods by train. IMDG: International maritime code for dangerous goods. IATA DGR: International air transport association dangerous goods regulation. ATE: Acute Toxicity Estimate.

Data sources: safety data sheet (19/12/2017) issued by the manufacturer.

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

Skin corrosion/irritation, Hazard Category 1 – H314	Based on calculation method
Sensitisation - Skin, hazard category 1 – H317	Based on calculation method
Serious eye damage/eye irritation, Hazard Category 1 – H318	Based on calculation method
Reproductive toxicity, Hazard Category 1B – H360Df	Based on calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 3 – H412	Based on calculation method

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

H312 – Harmful in contact with skin.

H314 – Causes severe skin burns and eye damage.

H317 – May cause an allergic skin reaction.

H318 – Causes serious eye damage.

H360Df – May damage the unborn child. Suspected of damaging fertility.

H400 – Very toxic to aquatic life.

H412 – Harmful to aquatic life with long lasting effects.

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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