

SAFETY DATA SHEET

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

1.1. Product identifier:

E-Z BALL PLUG PART A

Part Number: 66-440026-256

1.2. Relevant identified uses of the mixture and uses advised against:

Bowling ball plug for professional use.

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

Information about the distributor/importer:

BRUNSWICK BOWLING PRODUCTS, LLC

525 W. Laketon Ave.

Muskegon, MI 49441 USA

Tel.: 231-725-4966

1.3.1. Responsible person:

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E-mail:

Brunswick.hu@brunswickbowling.com

1.4. Emergency telephone number:

231-725-4966

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the mixture:

Classification according to Regulation 1272/2008/EC (CLP):

Skin corrosion/irritation, Hazard Category 2 – H315

Sensitisation - Skin, hazard category 1 – H317

Serious eye damage/eye irritation, Hazard Category 2 – H319

Sensitisation - Respiratory, hazard category 1 – H334

Specific target organ toxicity – Single exposure, Hazard Category 3, Respiratory tract irritation – H335

Carcinogenicity, Hazard Category 2 – H351

Specific target organ toxicity – Repeated exposure, Hazard Category 2 – H373

Warning H statements:

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H319 – Causes serious eye irritation.

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 – May cause respiratory irritation.

H351 – Suspected of causing cancer.

H373 – May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements:

Components that define the hazards: Methylenediphenyl diisocyanate



Warning **H statements:**

- H315** – Causes skin irritation.
- H317** – May cause an allergic skin reaction.
- H319** – Causes serious eye irritation.
- H334** – May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335** – May cause respiratory irritation.
- H351** – Suspected of causing cancer.
- H373** – May cause damage to organs through prolonged or repeated exposure.

Precautionary **P statements:**

- P201** – Obtain special instructions before use.
- P202** – Do not handle until all safety precautions have been read and understood.
- P261** – Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264** – Wash thoroughly after handling.
- P271** – Use only outdoors or in a well-ventilated area.
- P272** – Contaminated work clothing should not be allowed out of the workplace.
- P280** – Wear protective gloves/eye protection/face protection.
- P302 + P352** – IF ON SKIN: Wash with plenty of water and soap.
- P304 + P312** – IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
- P305 + P351 + P338** – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313** – IF exposed or concerned: Get medical advice/attention.
- P321** – Specific treatment (see information on this label).
- P333 + P313** – If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313** – If eye irritation persists: Get medical advice/attention.
- P342 + P311** – If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P362 + P364** – Take off contaminated clothing and wash it before reuse.
- P405** – Store locked up.
- 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.
The product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

Hazardous ingredients:

Description	CAS number	EC number/ ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation 1272/2008/EC (CLP)		
					Hazard pictogram	Hazard category	H phrase
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1'-methylenebis[4-isocyanatobenzene]*	9048-57-1	500-028-8	-	50 – 75	-	not classified	-
Methylenediphenyl diisocyanate	26447-40-5	247-714-0	-	10 – 25	GHS08 GHS07 Danger	Carc. 2 Acute Tox. 4 STOT RE 2 Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 Resp. Sens. 1 Skin Sens. 1	H351 H332 H373 H319 H335 H315 H334 H317

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

Specific concentration limits:

Methylenediphenyl diisocyanate (CAS number: 26447-40-5):

Eye Irrit. 2; H319: C ≥ 5 %

Skin Irrit. 2; H315: C ≥ 5 %

Resp. Sens. 1; H334: C ≥ 0,1 %

STOT SE 3; H335: C ≥ 5 %

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.

INGESTION:

Measures:

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

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.

SKIN CONTACT:

Measures:

- Remove contaminated clothing.

- Wash skin thoroughly with soap and water or use a recognized skin cleanser.

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:

Possible cancer hazard. Contains an ingredient, which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

Inhalation: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Eyes: Causes serious eye irritation.

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

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

No special treatment needed; treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

Water fog, foam, dry chemical powder, carbon dioxide (CO₂).

5.1.2. Unsuitable extinguishing media:

No data available.

5.2. Special hazards arising from the substance or mixture:

Hazardous decomposition products: carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gasses/vapours. Avoid breathing dust/fume/gas/mist/vapours/spray.

5.3. Advice for firefighters:

Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. DO NOT extinguish a fire resulting from the flow of this flammable liquid until the flow of the liquid is effectively shut off.

This precaution will help prevent the accumulation of an explosive vapour-air mixture after the initial fire is extinguished.

Use water spray to cool fire-exposed containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. For non-emergency personnel:

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 of 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: Dike and absorb Isocyanate with suitable absorbent material. Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended solution: Mixture of 90 % water, 8 % concentrated ammonia, 2 % detergent. Add at a 10:1 ratio with spilled material. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

LARGE SPILL: Dike spillage. If temporary control of isocyanate vapour is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal. For residues: Wash down with decontamination solution.

Allow solution to stand for at least 10 minutes.

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.

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

Examination of lung function should be carried out on a regular basis on persons applying this preparation.

Technical measures:

Handle containers carefully to prevent damage and spillage.

Precautions should be taken to minimize exposure to atmospheric humidity or water as carbon dioxide may be formed which, in closed containers can result in pressurization.

Care should be taken when reopening partly used containers.

If bulging of drums occurs, transfer to a well-ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Precautions against fire and explosion:

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage condition:

No explosion proofing necessary.

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 (Commission Directive 2000/39/EC of 8 June 2000):

The components of the mixture are not regulated with exposure limit value.

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	none
Seawater	no data	none
Freshwater sediment	no data	none
Seawater sediment	no data	none
Wastewater Treatment Plant (STP)	no data	none
Intermittent release	no data	none
Secondary poisoning	no data	none
Soil	no data	none

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 leaking 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.

1. **Eye/face protection:** use appropriate protective glasses with side shields (EN 166). An eye wash station is suggested as a good workplace practice.
2. **Skin protection:**
 - a. **Hand protection:** use appropriate protective PVC or rubber gloves (EN 374). Refer to the manufacturer's recommendations regarding the suitability of any gloves used.
 - b. **Other:** use appropriate protective clothing.
3. **Respiratory protection:** if workers are exposed to concentrations above the exposure limit, they must use appropriate respiratory protective device.
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 is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Parameter	Value / Test method / Remarks
1. Appearance:	yellow to amber liquid
2. Odour:	no data*
3. Odour threshold:	no data*
4. pH:	no data*
5. Melting point/freezing point:	no data*
6. Initial boiling point and boiling range:	no data*
7. Flash point:	no data*
8. Evaporation rate:	no data*
9. Flammability (solid, gas):	not applicable
10. Upper/lower flammability or explosive limits:	no data*
11. Vapour pressure:	no data*
12. Vapour density:	no data*
13. Relative density:	1 – 1.1
14. Solubility(ies):	no data*
15. Partition coefficient: n-octanol/water:	no data*
16. Auto-ignition temperature:	no data*
17. Decomposition temperature:	no data*
18. Viscosity:	no data*
19. Explosive properties:	no data*
20. Oxidizing properties:	no data*

9.2. Other information:

No data available.

*: 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:**
Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols, acids, alkalis and amines. Risk of exothermic reaction. Risk of violent reaction (amines). Risk of polymerization.
- 10.2. Chemical stability:**
Stable under normal conditions.
- 10.3. Possibility of hazardous reactions:**
No data available.
- 10.4. Conditions to avoid:**
No data available.
- 10.5. Incompatible materials:**
Water, alcohols, acids, alkalis and amines.
- 10.6. Hazardous decomposition products:**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
In case of fire: Hazardous decomposition products: carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gasses/vapours.

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 or skin sensitisation: May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: May cause respiratory irritation.
STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.1.1. Summaries of the information derived from the test conducted:**
No data available.
- 11.1.2. Relevant toxicological properties:**
Acute toxicity:
Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitization of the respiratory system resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability.
Methylenediphenyl diisocyanate (CAS number: 26447-40-5):
LD₅₀ oral: 6400 mg/kg (rat)
LD₅₀ dermal: 6200 mg/kg (rabbit)
Carcinogenicity:
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1'-methylenebis[4-isocyanatobenzene] (CAS number: 9048-57-1):
OSHA Regulated Carcinogen: No
NTP Known: No; Suspected: No
IARC Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
Methylenediphenyl diisocyanate (CAS number: 26447-40-5):
OSHA Regulated Carcinogen: No
NTP Known: No; Suspected: No
IARC Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; 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:**

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

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:

The mixture is not classified as hazardous for the environment.

Information about the components:

Methylenediphenyl diisocyanate (CAS number: 26447-40-5):

EC₅₀ 48 h: 1000 mg/l (Daphnia magna)

ErC₅₀ 72 h: 4300 mg/l (Chlorella vulgaris)

12.2. Persistence and degradability:

No data available.

12.3. Bioaccumulation potential:

Not measured.

12.4. Mobility in soil:

No data available.

12.5. Results of PBT and vPvB assessment:

The product does not contain any PBT or vPvB substances.

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:

Dispose of in accordance with applicable regulations.

List of Waste Code:

No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW code number has to be determined after a discussion with a waste disposal specialist.

13.1.2. Information regarding the disposal of the packaging:

Dispose of in accordance with applicable 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

ADR/RID; ADN; IMDG; IATA:

Not dangerous good in sense of the transport regulations.

14.1. UN Number:

None.

14.2. UN proper shipping name:

- None.
- 14.3. **Transport hazard class(es):**
None.
- 14.4. **Packaging group:**
None.
- 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)

The mixture contains a component, which is listed in Annex XVII of the Regulation No 1907/2006/EC of the European Parliament and of the Council, therefore it is subject to restrictions:
entry 56 - Methylenediphenyl diisocyanate (CAS: 26447-40-5)

15.2. **Chemical safety assessment:** no information.

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).

This Safety Data Sheet supersedes all previous versions according to Annex II of Regulation (EC) No 1907/2006.

Literature references / data sources:

Previous version (19. 12. 2017, version 1) of the safety data sheet.

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

Classification	Method
Skin corrosion/irritation, Hazard Category 2 – H315	Based on calculation method
Sensitisation - Skin, hazard category 1 – H317	Based on calculation method
Serious eye damage/eye irritation, Hazard Category 2 – H319	Based on calculation method
Sensitisation - Respiratory, hazard category 1 – H334	Based on calculation method
Specific target organ toxicity – Single exposure, Hazard Category 3, Respiratory tract irritation – H335	Based on calculation method
Carcinogenicity, Hazard Category 2 – H351	Based on calculation method
Specific target organ toxicity – Repeated exposure, Hazard Category 2 – H373	Based on calculation method

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

- H315** – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H332 – Harmful if inhaled.
H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 – May cause respiratory irritation.
H351 – Suspected of causing cancer *<state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>*.
H373 – May cause damage to organs *<or state all organs affected, if known>* through prolonged or repeated exposure *<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>*.

Training advice: no data available.

Full text of the abbreviations in the safety data sheet:

- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
AOX: Adsorbable organic halides.
BCF: Bioconcentration factor.
BOD: Biological Oxygen Demand.
CAS number: Chemical Abstract Service number.
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR effects: Carcinogenic, mutagenic, reprotoxic effects.
COD: Chemical Oxygen Demand.
CSA: Chemical Safety Assessment.
CSR: Chemical Safety Report.
DNEL: Derived-No-Effect-Level.
ECHA: European Chemical Agency.
EC: European Community.
EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).
EEC: European Economic Community.
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norm.
EU: European Union.
EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMSB: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC50: Lethal concentration resulting in 50 % mortality.
LD50: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.

PNEC: Predicted No Effect Concentration.
QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

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:
MSDS-Europe
International branch of ToxInfo Kft.

Professional help regarding the explanation of
the safety data sheet:
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