

SAFETY DATA SHEET



Product name: Benzin E5 100 oktan
Revision:
Product No.:

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Print date: 2023-12-01
SDS-ID: EU-EN/1.0

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

1.1. Product identifier

Product name: Benzin E5 100 oktan

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

Application: Fuel

Identified use(s): Can only be used as fuel for motor engines.

1.3. Details of the supplier of the safety data sheet

Supplier: Uno-X Mobility Danmark A/S
Buddingevej 195
2860 Søborg
produktteknik@unox.dk

Responsible for safety data sheet authoring: produktteknik@unox.dk

1.4. Emergency telephone number

Emergency telephone: Call a Poison Center, emergency number or doctor/physician.
National Poison Control Centres are available in Member Countries.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP: The product is classified:
Flam. Liq. 1;H224
Carc. 1B;H350
Muta. 1B;H340
Repr. 2;H361
Asp. Tox. 1;H304
Skin Irrit. 2;H315
STOT SE 3;H336
Aquatic Chronic 2;H411

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2.2. Label elements



Danger

Contains:

Gasoline

H224	Extremely flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.
P201	Obtain special instructions before use.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P403 + P235	Store in a well-ventilated place. Keep cool.
P233	Keep container tightly closed.
P370 + P378	In case of fire: Use alcohol resistant foam, carbon dioxide, dry powder or water fog to extinguish.
P273	Avoid release to the environment.
P391	Collect spillage.

2.3. Other hazards

PBT/vPvB: This product does not contain any PBT or vPvB substances.

Other: Vapours may form explosive mixtures with air. Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis. Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication. The product contains volatile, organic compounds which have a photochemical ozone creation potential.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The component classification is taken directly from Regulation (EC) No 1272/2008 Annex VI or other sources without regards to the remarks in Annex VI. The classification of the product itself has taken account of these remarks. The product may contain additional components which do not contribute to the classification.

The product contains: Mixture of hydrocarbons, C4-C10, (> 95% vol).

Gasoline contains benzene, max 1%-vol.

CLP:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
95	86290-81-5	289-220-8	-	Gasoline	Flam. Liq. 1;H224 Skin Irrit. 2;H315 Muta. 1B;H340 Carc. 1B;H350 Repr. 2;H361d STOT SE 3;H336 Asp. Tox. 1;H304 Aquatic Chronic 2;H411	
5	64-17-5	200-578-6	-	Ethanol	Flam. Liq. 2;H225 Eye Irrit. 2;H319	

References: The full text for all hazard statements is displayed in section 16.

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Immediately rinse mouth and drink 1-2 glasses of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Immediate transport to hospital. Bring along these instructions. Emptying the stomach should only be done under expert medical supervision.

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

Symptoms/effects: Be aware that symptoms of chemical pneumonia may occur several hours after exposure. (Coughing, chest tightness, feeling of chest pressure.)

See section 11 for more detailed information on health effects and symptoms.

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

Medical attention/treatments: Treat symptomatically. If aspirated into lungs: Keep under medical review for possible development of chemical pneumonia. Individuals with mild initial symptoms should be observed for at least 24 hours from exposure in order to detect potential delayed chemical pneumonitis/pulmonary oedema.

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards: Extremely flammable liquid and vapour. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and in the bottom of containers.
Stop leak if possible without risk.
During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Protective equipment for fire-fighters: Wear air-supplied mask in confined areas. Fire in closed areas should only be extinguished by trained personnel. Fight advanced or massive fires from safe distance or protected location.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Warn everybody of potential hazards and evacuate if necessary. Remove all sources of ignition. Mark the spillage. Avoid any exposure.

Protective equipment: Clean-up personnel should use respiratory and/or liquid contact protection.

Emergency procedures: Large Spillages: Notify fire brigade.

6.2. Environmental precautions

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.
Spillage close to water inlets: Notify persons concerned.
Spillage on roads, fields etc.: Close outlets, gutter etc.

6.3. Methods and material for containment and cleaning up

Methods for containment: Dam and absorb spillages with sand, earth or other non-combustible material.

Methods for cleaning up: Remove spillage immediately. Collect spillage in metal/plastic container with tight-fitting lid, with indication of the contents. Absorb the remainder with an inert absorbent material. Beware of the fire hazard.

6.4. Reference to other sections

References: For personal protection, see section 8.
For waste disposal, see section 13.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice: Avoid any exposure. Observe good chemical hygiene practices. Keep away from open flames. No smoking. The product evaporates easily at room temperature and vapors are highly explosive. Vapours may be concentrated at floor level and low lying areas.

Technical measures: Use antispark tools.
Ground container and transfer equipment to eliminate static electric sparks. Work practice should minimise contact. Do not store tobacco, food or beverage in work rooms or areas where the product is used. Do not eat, drink or smoke when using the product. Use work methods which minimise spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: Follow rules for flammable liquids. Ground container and transfer equipment to eliminate static electric sparks.

Storage conditions: Store in a cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep away from oxidising agents.

7.3. Specific end use(s)

Specific use(s): Can only be used as fuel for motor engines.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Please note that there may be national occupational exposure limits.

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
-	Benzene	-	1 ppm 3.25 mg/m3	-	Skin	EC

Notes: EC: Commission Directives 2009/148/EC, 2004/37/EC, 2000/39/EC and 91/322/EEC, with amendments.

8.2. Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Filter type: Preferably A3, but as a minimum A2. Change filters frequently. Consult instructions before use. When working in tanks and confined spaces specified instructions must be obtained.

Hand protection: Risk of contact: Wear protective gloves. It is recommended to use gloves of Viton or nitrile rubber. Breakthrough time: > 8hours. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Other types of gloves can be recommended by the glove supplier. The most suitable glove must be chosen in collaboration with the supplier of gloves, who can inform about the breakthrough time of the glove material.

Eye protection: If risk of splashing, wear safety goggles or face shield.

Skin protection: Wear apron or protective clothing in case of splashes.

Hygiene measures: When using do not eat, drink or smoke. Personal protection may not be worn during meal breaks. Personal protection must be kept separate from other clothes. Do not store tobacco, food or beverage in work rooms or areas where the product is used. Wash hands after handling.

Environmental Exposure Controls: Comply with applicable legal limit values for emissions to air, water and soil. Protect the environment by taking appropriate measures to prevent or minimise emissions.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: clear yellow liquid.
Odour: Characteristic.
pH: Neutral.
Melting point / freezing point: < -50°C
Boiling point: 25-220 °C
Flash point: < -40 °C
Explosion limits: Lower: 1,4 %vol
Upper: 7,6 %vol
Vapour pressure: 45-95 kPa (37°C)
Vapour density: >3 (Air=1)
Relative density: 720-775 kg/m³ (15°C)
Solubility: Gasoline: Immiscible with water.
Etanol: Soluble in water.

Partition coefficient (n-octanol/water): 2-7
Auto-ignition temperature (°C): >250 °C
Viscosity: <1 cSt (40°C)

9.2. Other information

Other data: Not available.

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: None known.

10.2. Chemical stability

Stability: Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions: None known.

10.4. Conditions to avoid

Conditions/materials to avoid: Heat, sparks, flames.

10.5. Incompatible materials

Incompatible materials: Avoid contact with strong oxidisers.

10.6. Hazardous decomposition products

Hazardous decomposition products: During thermal decomposition of the product harmful gases (CO, CO₂ and unidentified hydrocarbons) will be developed.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: May cause genetic defects.

Carcinogenicity: May cause cancer.

Reproductive Toxicity: Suspected of damaging the unborn child.

STOT - Single exposure: May cause drowsiness or dizziness.

STOT - Repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: May be fatal if swallowed and enters airways.

Inhalation: Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication. Vapours may irritate throat and respiratory system and cause coughing.
At high temperature, products of thermal decomposition can be irritating to respiratory system.

Skin contact: Degreasing to skin. Prolonged contact may cause redness, irritation and dry skin.

Eye contact: Exposure to liquid or high concentrations of vapour can cause moderate to severe eye irritation. Effects are expected to be reversible.

Ingestion: Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis. (SYMPTOMS: Coughing, chest tightness, feeling of chest pressure.)Be aware that symptoms of chemical pneumonia may occur several hours after exposure.

Toxicological data: LD50 (dermal, rat): >2000 mg/kg
LD50 (oral, rat): >2000 mg/kg
LC50, 4h (Inhalation/rat): >5mg/l

11.2. Information on other hazards

Endocrine disrupting properties: The product does not contain any substance identified as having endocrine disrupting properties.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: The product is toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.
Expected LC/EC50 value: 1-100 mg/l

12.2. Persistence and degradability

Degradability: The product is slowly degradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil

Mobility: The product evaporates partially from soil and water surface. The product can penetrate soil reaching the ground water.

12.5. Results of PBT and vPvB assessment

PBT/vPvB: This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting properties: The product does not contain any substance identified as having endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects: The product contains volatile, organic compounds which have a photochemical ozone creation potential.
Hazardous to drinking water installations.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste is classified as hazardous waste. Dispose of waste and residues in accordance with local authority requirements.

Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

Drain and vent containers thoroughly; then dispose of as waste.

Waste from residues: EWC-code: 13 07 02

Contaminated packaging: EWC-code: 15 01 10

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SECTION 14: TRANSPORT INFORMATION

The product is covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

14.1. UN number

UN-No: 1203

14.2. UN proper shipping name

Proper Shipping Name: GASOLINE

14.3. Transport hazard class(es)

Class: 3

14.4. Packing group

PG: II

14.5. Environmental hazards

Marine pollutant: No.

Environmentally Hazardous Yes.

substance:

14.6. Special precautions for user

Special precautions: Ground container and transfer equipment to eliminate static electric sparks. Use non sparking handtools and explosion-proof electric equipment.

Tunnel restriction code: D/E

EmS: F-E, S-E

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk: Not relevant.

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SECTION 15: REGULATORY INFORMATION

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

Special provisions: As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

In addition to the label elements stated in section 2.2, the following must be stated on the label/packaging:

Restricted to professional users.

National regulation: 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, with amendments.

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 with amendments.

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work, with amendments.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, with amendments.

Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work, with amendments.

Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work, with amendments.

Directive 2009/148/EC of the European Parliament and of the Council of 30 November 2009 on the protection of workers from the risks related to exposure to asbestos at work, with amendments.

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, with amendments.

2014/955/EC: Commission Decision of 18 December 2014 amending Decision 2000/532/EC as regards the list of wastes.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work, with amendments.

15.2. Chemical Safety Assessment

CSA status: A chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

For restrictions on use see section 15.

Abbreviations and acronyms used in the safety data sheet: CSA = Chemical Safety Assessment.
EC50 = Effective Concentration 50%.
LC50 = Lethal Concentration 50%.
LD50 = Lethal Dose 50%.
PBT = Persistent, Bioaccumulative and Toxic.
vPvB = very Persistent and very Bioaccumulative.

Key literature references and sources for data: The following exposure scenarios are attached to this safety data sheet:
http://www.yx.dk/msds/benzin_scenarier.pdf

Additional information: Classification according to Regulation (EC) No. 1272/2008: Calculation method.

Wording of H-statements:

H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.
www.dhigroup.com.
