



MATERIAL SAFETY DATA SHEET

[Sporządzona zgodnie z rozporządzeniem WE Nr 1907/2006 (REACH)]

1. Product and producer identification

Trade name: **DEKOLIT E SUPER CONCENTRATE**
Product characteristic: Wood impregnate against fungus and insects. Product for professional use.
Producer: Dekspol P.P.H. Iwona Oleszak
Address: ul. Kościuszki 14; 62-300 Września, Poland
Telephone/Fax: + 48 (061) 640 00 04;
E-mail: dekspol@dekspol.pl
Emergency telephone: + 48 (061) 847 69 46 [Ośrodek Informacji Toksykologicznej in Poznań, Poland] open 24 hours or +48 (061) 640 00 04 (Dekspol office) working hours: 8⁰⁰-16⁰⁰ monday-friday.

2. Composition, information on ingredients

Hazards to man

Corrosive, causes burns. Harmful by inhalation, in contact with skin and if swallowed. May produce an allergic reaction.

Hazards to the environment

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards

None.

3. Hazard identification

Substances name, concentration	CAS Number	WE Number	Symbols, R – phrases
Propiconazole < 0,6%	60207-90-1	262-104-4	Xn R:22; R:43; N R:50/53
Copper(II) carbonate-copper(II) hydroxide (1:1) < 18%	12069-69-1	235-113-6	Xn R:22; Xi R:36/37/38
Ethanolamine < 2%	141-43-5	205-483-3	Xn R:20/21/22; C R:34

Additional product contains boric acid, which is not classified as dangerous.
Full text of each relevant R – phrase is in chapter 16.

4. First aid measures

General informations

Proper use and security informations printed on the label should be mentioned. Call for medican or rescue team.

Skin contact

Take off contaminated clothes immediately. Rinse the contaminated parts of skin with plenty of water. Do not use solvents or thinners. Use the sterile dressing. Consult a doctor.

Eye contact

Wash out with plenty of water with the eyelid hold wide open at least 10 – 15 minutes. Remove any contact lenses. Use the sterile dressing. Protect non-exposed eye. Consult an ophthalmologist.

Ingestion

Rinse mouth with water, give water to drink (even few liters). Consult a doctor – show the container or label. **Do not induce vomiting! Do not neutralize.**

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Inhalation

Remove to fresh air. Keep warm and calm. In case when the person is unconscious transport in safe fix position. Consult a doctor.

5. Fire fighting measures

Suitable extinguishing agents

Fire foam, CO₂, water spray, fire powder.

Extinguishing agents which are unsuitable for reasons of safety

Water jet – risk of the propagation of the flame.

Special equipment for fire-fighting personnel

Personal protection typical in case of fire. Wear suitable respiratory equipment.

Other informations

Product is not flammable. Cool down containers with water to prevent bursting. Use extinguishing measures that are appropriate to the environment. Do not flush into surface water or ground water.

Product contains ethylamine, which vapours may form explosive mixture with air. In case of fire and in high temperature may form dangerous gases and fumes (carbon oxides, nitrogen oxides, ammonia, copper compounds).



6. Accidental release measures

Personal precautions

Wear proper protective clothes. Keep other people out. Avoid contact with skin and eyes. Do not breathe vapours. Keep the proper ventilation. See also section 8.

Environmental precautions

Do not allow the substance to contaminate surface, water/ground water. If the product contaminates waterways or drains, alert the relevant authorities. In case of large spill of the product proper steps should be taken to avoid spread out in natural environment. Call the proper rescue services.

Methods for cleaning up/taking up

Soak up with liquid-binding material (e.g. sand, sawdust, universal binding agent, diatomaceous earth). Collect spilled material in containers. Disposal in accordance with the local legislation as wastes. Clean the contamination place. See also section 13.

7. Handling and storage

Handling

Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Do not breathe vapours. Work only in well-ventilated areas. Ethanolamine vapours are heavier than air, may float above surface of the floor and may form an explosive mixture with air.



Storage and packing

Keep only in original tightly closed container, in well ventilated, cold place. Protect from direct sunlight. Do not store with food or feed for animals. Container, which have already been opened should be tightly closed again and stored in vertical position precluding efflux.

Specific uses

Wood impregnate against fungus and insects. Product for professional use.

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8. Exposure controls and personal protection

Components with critical values that require monitoring at the workplace (Occupational Exposure Limits) *

Specification	NDS	NDSch	NDSP	DBS
ethanolamine [CAS 141-43-5]	2,5 mg/m ³	7,5 mg/m ³	—	—
dust of oxides and insoluble copper salts convert for Cu	1 mg/m ³	2 mg/m ³	—	—

* Polish data

Personal safety equipment

Use the product in accordance with good occupational hygiene and safety practices. Before break and after work carefully wash hands. Take off dirty cloth immediately. Avoid contact with skin and eyes. When handling do not eat, drink or smoke, take a medicine.

Hands and body protection: use the protective gloves and protective clothes.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

Eye protection: use the safety glasses or face protection.

Respiratory system protection: in case of good ventilation is not required (respiratory system should be protect from aerosol or mist).



Environmental exposure controls

Do not allow the substance to contaminate surface water/ground water. If the product contaminates waterways or drains, alert the relevant authorities.

9. Physical and chemical properties

form:	liquid
colour:	navy blue
odour:	characteristic, ammonia
boiling point:	decompose before boiling point
density (20°C):	1,23 g/cm ³
pH value (25°C):	11-12 (20% solution)
explosive properties:	product is not explosive, ethanolamine vapours may form an explosive mixture with air especially in high temperature
explosion limits lower/upper:	2,5 % vol. / 13,1 % vol. (data for ethanolamine) ¹⁾
water solubility:	absolute

10. Stability and reactivity

Conditions to avoid

The product is stable under normal conditions (see also in chapter 7). Avoid sources of ignition and heat.

Materials to avoid

- oxidizing agents, strong acids and basis (dangerous of exothermic reaction and explosion).
- monomers ex. vinyl chloride, vinyl acetate, epoxides, acrylic aldehyde, acrylonitrile, acrylate (possibility of violent reaction).
- strong reducing agents ex. hydrazine (possibility of violent reaction).
- aluminium (ethanolamine react with aluminium above 60°C with hydrogen release).

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- cellulose nitrate (possibility of self-ignition).
- acetylene, nitromethane, sodium bromate.
- ethanolamine is corrosive for copper and alloys (brass, bronze), iron, aluminium and zinc.

Hazardous decomposition products

No data available. Decomposition products in case of fire see chapter 5.

11. Toxicological information

Toxicity of components²⁾

ethanolamine [CAS 141-43-5]

DL ₅₀ (oral, rat)	1 720 mg/kg	[Toxicology and Applied Pharmacology. Vol. 42, Pg. 417, 1977]
DL ₅₀ (skin, rabbit)	1 ml/kg	[Union Carbide Data Sweet.Vol. 1/13/1972]
LC ₅₀ (inhalation, mouse)	> 2 420mg/m ³ /2h	[Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 23(9), Pg. 55, 1979]

Acute toxicity of product

The product has not been toxicologically tested. No test data are available for the product. The assessment of the toxicological properties of the product is based exclusively upon the data of the raw materials and the classification criteria (calculation method).

Toxicological effects and symptoms

Eye contact – causes strong redness, pain, lacrimation, conjunctiva burns with risk of cornea damage.

Skin contact – causes burns; pain, strong redness, swelling, blister, necrosis. In special sensitive person may occur allergic reaction.

Ingestion – burns; throat, gullet and stomach pain; nausea; vomiting and/or diarrhoea; vertigo and headache. When swallowing or vomiting, flooding occurs than severe damage to lungs or heavy respiratory problems may occur.

Inhalation – irritating for respiratory system. In higher concentrations product's vapours may cause cough, throat irritation, stifling, difficulties with breathing, pain in chest, , lacrimation and eye pain. May also appear vertigo and headache, nausea, vomiting.

12. Ecological information

Ecotoxicity of components

propiconazole (PN) [CAS 60207-90-1]

toxicity for:	<i>Oncorhynchus mykiss</i>	LC ₅₀ 13 200 – 16 000 µg/l/96h [Environmental Fate and Effects Division, U.S.EPA, Washington, D.C., 2000]
	<i>Baetis rhodani</i>	LC ₅₀ 900 µg/l/96h [Int.Assoc.Theor.Appl.Limnol.Proc./Int.Ver.Theor. Angew.Limnol.Verh. 24(4):2277-2281, 2000]

Ecotoxicity of product

The product has not been tested. No ecological research on the product has been performed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow the substance to contaminate surface water/ground water.

13. Disposal considerations

Disposal methods for the product

Disposal in accordance with the local legislation. Waste code: 03 02 05.

Disposal methods for used packing

Empty containers give for appropriate rubbish dump or for disposal in accordance with the local legislation. Dispose of uncleanable containers like of the product.

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14. Transport information

The product is not classified according to ADR. The product is not dangerous during road, rail, sea and air transport.

15. Regulatory information

Hazard symbols



C
CORROSIVE

Substance name for labeling

Contains: propiconazole. May produce an allergic reaction.

Risk phrases

R34 Causes burns.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately – show the label where possible.
S60 This material and its container must be disposed of as hazardous waste.

Additional informations for labeling

Biocide – permission number 2993/06.
Contains: copper(II) carbonate-copper(II) hydroxide (1:1) [18% by weight]; propiconazole [0,5% by weight]; boric acid [3% by weight].

Regulations

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.

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

Commission Directive 2001/58/EC of 27 July 2001 amending for the second time Directive 91/155/EEC defining and laying down the detailed arrangements for the system of specific information relating to dangerous preparations in implementation of Article 14 of European Parliament and Council Directive 1999/45/EC and relating to dangerous substances in implementation of Article 27 of Council Directive 67/548/EEC (safety data sheets).

Commission Directive 2001/59/EC of 6 August 2001 adapting to technical progress for the 28th time Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

Commission Directive 2004/73/EC of 29 April 2004 adapting to technical progress for the twenty-ninth time Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

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16. Other information

Full text of indicated R-phrases mentioned in chapter 3

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other data

The product classification has been prepared according to real concentration of each component and identifies real danger caused by this product. Real concentration of a particular component is always within the proper range. Considering that the final product classification may vary from the classification calculated using upper values of concentration.

NDS	Najwyższe Dopuszczalne Stężenie
NDSch	Najwyższe Dopuszczalne Stężenie Chwilowe
NDSP	Najwyższe Dopuszczalne Stężenie Pułapowe
DSB	Dopuszczalne Stężenie w materiale Biologicznym
1)	ChemDAT MERCK
2)	ChemIDPlus
3)	PAN Pesticides Database - Chemical Toxicity Studies on Aquatic Organisms

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Composed by: Mgr Marta Kuberska

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field. This Material Safety Data Sheet is annulling and replacing all the others made in the past.

Safety Data Sheet made out „**THETA**” Technical Consulting, for order **DEKSPOL**