

**DENSOCURE W, W forte**

Creation date	26. March 2015	Revision no.	
Date of revision		Version	1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1. Product identifier**  
substance / mixture DENSOCURE W, W forte  
Number mixture  
2-9, 2-26  
Other names of the mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Intended use of the mixture Curing agent, Sealing and finalization coating  
Not recommended use of the mixture The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name BETOSAN s.r.o.  
Place of business or residency Na Dolinách 28, Praha 4, 147 00  
Czech Republic  
Telephone 241 431 212  
Fax 241 431 212  
E-mail praha@betosan.cz  
Web address www.betosan.cz  
Emergency telephone number 241 431 212, 8,00-16,00
- Competent person responsible for the safety data sheet**  
Name BETOSAN s.r.o.  
E-mail praha@betosan.cz
- 1.4. Emergency telephone number**  
Toxicological Information Centre, Na Bojišti 1, Praha, Tel.: non-stop 224 919 293 or 224 915 402, Information on health risks only - acute poisoning of humans and animals

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008
- The classification of the mixture according to Directive 1999/45/EC**  
The mixture is not classified as dangerous according to Directive 67/548/EEC
- The most serious adverse physicochemical effects**  
Unknown
- The most serious adverse effects on human health and the environment**  
Unknown
- 2.2. Label elements**  
none
- 2.3. Other hazards**  
not available

**SECTION 3: Composition/information on ingredients**

- 3.2. Mixtures**  
**Chemical characterization**  
Mixture of substances specified below and nonhazardous additives.  
**Mixture contents these hazardous substances and substances with the highest permissible concentration in the working environment**  
none

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**SECTION 4: First aid measures****4.1. Description of first aid measures**

If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that respiratory pathways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

**Inhalation**

not available

**Skin contact**

not available

**Eye contact**

not available

**Ingestion**

not available

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

Possible irritation of respiratory pathways, cough, headache.

**Skin contact**

Not expected.

**Eye contact**

Not expected.

**Ingestion**

Irritation, nausea.

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

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist

**Unsuitable extinguishing media**

water - full jet

**5.2. Special hazards arising from the substance or mixture**

Heavy, black smoke is produced in a fire, with potential development of carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the mixture near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

The mixture is nonflammable. Provide sufficient ventilation. Use gloves in case of prolonged contact. Follow the instructions in Sections 7 and 8.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

**6.3. Methods and material for containment and cleaning up**

Spilled mixture should be covered with suitable (nonflammable) absorbing material (sand, kieselguhr, earth and other suitable absorption materials); to be contained in well closed containers and removed as per Section 13. Collected material should be disposed of in accordance with locally valid regulations. Upon an escape of large quantities of the mixture, inform the Fire Department and the Environmental Department of the Municipal Authority with extended scope of competencies. After removal of the mixture, wash the contaminated site with plenty of water or another suitable cleaning material. Do not use solvents.

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**6.4. Reference to other sections**  
7, 8 and 13.**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the highest permissible concentration in the occupational environment. The mixture should be used only in areas where it is not in contact with open fire and other ignition sources. No smoking. Protect against direct sunlight. Electrostatic charge may form during use; use only earthed piping (tubing) when repumping. Use of antistatic clothes and footwear is recommended. Use non-sparking tools. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations laying down safety and health protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight.

Storage class	12 - Other non-combustible liquids
Content	50 l
Type of packaging	Hobbock
Material of package	LDPE (4), Low density polyethylene (Plastics)



LDPE

**The specific requirements or rules relating to the substance/mixture**

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

**7.3. Specific end use(s)**  
not available**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

none

**8.2. Exposure controls**

Follow usual measures for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of respiratory pathways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

**Eye and face protection**

Protective goggles or face shield (based on the nature of the work performed).

**Skin protection**

Hand protection: Protective gloves resistant against the product. Observe recommendations of the particular manufacturer of the gloves in the choice of their appropriate thickness, material and permeability. Use barrier creams to protect of the skin, they should however not be applied once exposure has occurred. Observe other recommendations of the manufacturer. Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant against elevated temperatures. Contaminated skin should be washed thoroughly.

**Respiratory protection**

Mask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of toxic substances are exceeded or in a poorly ventilated environment.

**Thermal hazard**

not available

**Restriction of the environment exposure**

Observe usual measures for protection of the environment, see Section 6.2.

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	liquid
physical state	liquid in 20°C
colour	white
Odour	no
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	100 °C
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	miscible
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	nemá

**9.2. Other information**

Density	1,3 g/cm <sup>3</sup>
auto-ignition temperature	data not available
VOC (Volatile organic compound)	30 g/l
VOC ready for use	0,8 g/l

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The mixture is nonflammable

**10.2. Chemical stability**

Under normal conditions, the mixture is stable.

**10.3. Possibility of hazardous reactions**

The mixture is stable under normal conditions.

**10.4. Conditions to avoid**

The mixture is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

**10.5. Incompatible materials**

Protect against strong acids, bases and oxidizing agents. Thereby a dangerous exothermic reaction will be prevented.

**10.6. Hazardous decomposition products**

Not developed under normal uses. Dangerous products are formed at high temperature and in fire, such as carbon monoxide and carbon dioxide, heavy smoke and nitrogen oxides.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

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Based on available data, the classification criteria are not accomplished.

**Corrosion/skin irritation**

Based on available data, the classification criteria are not accomplished.

**Serious eye damage / eye irritation**

Based on available data, the classification criteria are not accomplished.

**Respiratory / skin sensitization**

Based on available data, the classification criteria are not accomplished.

**Germ cells mutagenicity**

Based on available data, the classification criteria are not accomplished.

**Carcinogenicity**

Based on available data, the classification criteria are not accomplished.

**Reproductive toxicity**

Based on available data, the classification criteria are not accomplished.

**Toxicity for specific target organ - single exposure**

Based on available data, the classification criteria are not accomplished.

**Toxicity for specific target organ - repeated exposure**

Based on available data, the classification criteria are not accomplished.

**Aspiration hazard**

Based on available data, the classification criteria are not accomplished.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**

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Parameter	Method	Value	Time of exposure	Species	Environment	Determining the value of	Source
LC 50		100 mg/kg	96 hour	fishes (Oncorhynchus mykiss)			
EC 50		20 mg/kg	48 hour	daphnia (Daphnia magna)			

The product contains no substances with an effect against active action of microorganisms.

**12.2. Persistence and degradability**

The mixture is biodegradable.

**12.3. Bioaccumulative potential**

Insignificant.

**12.4. Mobility in soil**

The product is soluble and mobile in water and soil. Contamination of water courses may occur in case of rain.

**12.5. Results of PBT and vPvB assessment**

The mixture is not classified as PBT or vPvB.

**12.6. Other adverse effects**

not available

**SECTION 13: Disposal considerations**

Hazard of environmental contamination; remove waste in accordance with local and/or national regulations.

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**13.1. Waste treatment methods**

Proceed in accordance with valid regulations laying down the disposal of waste. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to an authorised person for waste removal (specialized company) authorised for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**Legislation of waste**

Council Directive 75/442/EEC on waste, at last amended. Council Directive 91/689/EEC on hazardous waste, as last amended. Decision 94/3/EC establishing a list of wastes, as last amended.

<b>Code of type of waste</b>	080112
Type of waste	waste paint and varnish other than those mentioned in 08 01 11
Subgroup of waste	wastes from MFSU and removal of paint and varnish
Waste group	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
<b>Code of type of waste packaging</b>	150102
Type of waste	plastic packaging
Subgroup of waste	packaging (including separately collected municipal packaging waste)
Waste group	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

**SECTION 14: Transport information**

- 14.1. UN number**  
not available
- 14.2. UN proper shipping name**  
not available
- 14.3. Transport hazard class(es)**  
not available
- 14.4. Packing group**  
not available
- 14.5. Environmental hazards**  
not available
- 14.6. Special precautions for user**  
Reference in Sections 4 to 8.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not available

**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, as amended. 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, as amended. Directives 67/548/EEC, as amended, and 1999/45/EC, as amended.
- 15.2. Chemical safety assessment**  
not available

**16. SECTION 16: Other information****Other important information about safety of human health**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per Section 1. The user is responsible for adherence to all related health protection regulations.

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**Key to the abbreviations and the acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Unique Numeric Identifier used in chemistry for chemical substances
CLP	Classification, Labelling and Packaging
CSN	Czech Technical Standard
DNEL	Derived no-effect level
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
Ems	Emergency plan
ErC50	Environmental Release category
ES	Identification code for each substance listed in EINECS
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50 % blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Transport
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
Log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
MFAG	First Aid Manual
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
NPK	The maximum permissible concentration
PBT	Persistent ,Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted no-effect concentration
REACH	Registration, Evaluation and Restriction of chemicals (EP and Council Regulation (EC) No.1907/2006)
RID	Agreement on the transport of dangerous goods by rail
UN	Four-digit code reflecting the characteristics of substances or mixtures in transport
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the mixture.

**Recommended restrictions of use**

not available

**Information about the sources of data used to compile the data sheet**

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended, REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended, COMMISSION REGULATION (EU) No 453/2010, COUNCIL DIRECTIVE 67/548/EEC as amended and 1999/45/EC, COMMISSION REGULATION (EU) No 286/2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

**The changes (which information has been added, deleted or modified)**

Reworked classification according to Regulation 1272/2008 (CLP).

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**Statement**

The Safety Data Sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.