

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. 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  
Number  
Other names of the mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Intended use of the mixture  
Not recommended use of the mixture
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name  
Place of business or residency  
Telephone  
Fax  
E-mail  
Web address  
Emergency telephone number
- Competent person responsible for the safety data sheet**  
Name  
E-mail
- 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
- BETOLIT KP, W, NF, NF W component A  
mixture  
7-1, 7-9, 7-20, 7-22
- Two-component penetration coat on the basis of epoxy resins  
The product should not be used in ways other than those referred in Section 1.
- BETOSAN s.r.o.  
Na Dolinách 28, Praha 4, 147 00  
Czech Republic  
241 431 212  
241 431 212  
praha@betosan.cz  
www.betosan.cz  
241 431 212, 8,00-16,00
- BETOSAN s.r.o.  
praha@betosan.cz

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

A mixture is classified as dangerous.

Flam. Liq. 2, H225  
Skin Irrit. 2, H315  
Skin Sens. 1, H317  
Eye Irrit. 2, H319  
STOT SE 3, H336  
Aquatic Chronic 2, H411

**The classification of the mixture according to Directive 1999/45/EC**

A mixture is classified as dangerous.

highly flammable: F; R 11  
Irritant: Xi; R 36/38  
sensitising: R 43  
R 67  
Dangerous for the environment: N; R 51/53

Full text of all classifications, H-phrases and R-phrases is given in the section 16.

**The most serious adverse physicochemical effects**

Highly flammable liquid and vapour.

**The most serious adverse effects on human health and the environment**

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**2.2. Label elements****Warning symbol****Signal word**

Danger

**Hazardous substances**

acetone

epoxy resin (number average molecular weight  $\leq 700$ )**Hazard statements**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**Instructions for safe handling**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235	Keep cool.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER if you feel unwell.
P312	Call a POISON CENTER if you feel unwell.
P321	Specific treatment (see Supplemental first aid instructions. 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.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use powder extinguisher to extinguish.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to local\regional\national\international regulations.

**Requirements for child-resistant fastenings and tactile warning of danger**

Container has to be fitted with a tactile warning of danger.

**2.3. Other hazards**

not available

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Mixture of substances specified below and additives.

**Mixture contents these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Name of the substance	Content in % weight of the mixture	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No 1272/2008	Note
Index: 606-001-00-8 CAS: 67-64-1 ES: 200-662-2	acetone	75	F; R 11 Xi; R 36 R 66, R 67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1
Index: 603-074-00-8 CAS: 25068-38-6 ES: 500-033-5	epoxy resin (number average molecular weight ≤ 700)	25	Xi; R 36/38 R 43 N; R 51/53	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	1, 2

**Notes**

- Substances for which there are exposure limits Community for working environment.
- The substance with a specific concentration limit

The full text of all standard phrases and guidelines is specified in Section 16.

**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**

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

**Skin contact**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Note: If the mixture sticks to the skin and cannot be removed with water and cleaning products or edible oil, do not use force and leave for specialized treatment.

**Eye contact**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible. Note: If the product sticks to the skin of the eyelids and cannot be removed using water, do not use force and leave for specialized treatment.

**Ingestion**

DO NOT INDUCE VOMITING - even the inducing of vomiting by itself may cause complications (inhalation of the substance in respiratory pathways and lungs, for example, in detergents and other substances that produce foam or causing mechanical damage to the mucous membrane of the pharynx). If possible, give a small amount of activated carbon (1-2 crushed tablets). For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the substance or mixture. Provide medical treatment if the person has any health problems.

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

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

Possible irritation of respiratory pathways, cough, headache.

**Skin contact**

Painful reddening, irritation.

**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**

The mixture is highly flammable. 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**

Remove all ignition sources; provide sufficient ventilation. Use personal protective equipment for work. 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.

**6.4. Reference to other sections**

7, 8 and 13.

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**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

3A - Flammable liquids (flash point below 55°C)

Type of packaging

bucket

Material of package

FE (40), Steel (Metals)



FE

**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**

Czech Republic

Name of the substance (component)	CAS number	Limit values				Note
		PEL		NPK-P		
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
acetone	67-64-1	800	336,8	1500	631,5	I
epoxidová pryskyřice (průměrná početní molekulová hmotnost ≤ 700)	25068-38-6	2				

Note

I

irritating to mucous membranes (eyes, respiratory system) and skin

European Union

Name of the substance (component)	CAS number	Limit values				Note
		8 hours		Short-term		
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
acetone	67-64-1	800	400	1500	600	
dust epoxy resins	25068-38-6	2				

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**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.

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

Appearance	low viscosity liquid
physical state	liquid in 20°C
colour	pale yellow
Odour	of acetone
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	18 °C
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	
bottom	2,2 %
upper	13 %
Vapour pressure	data not available
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	data not available
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	data not available

**9.2. Other information**

Density	0,87 g/cm <sup>3</sup>
auto-ignition temperature	data not available

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

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

The mixture is flammable.

**10.2. Chemical stability**

Under normal conditions, the mixture is stable.

**10.3. Possibility of hazardous reactions**

Under normal conditions, the mixture is stable.

**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**

No toxicological data is available for the mixture.

**Acute toxicity**

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

**Corrosion/skin irritation**

Causes skin irritation.

**Serious eye damage / eye irritation**

Causes serious eye irritation.

**Respiratory / skin sensitization**

May cause an allergic skin reaction.

**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**

May cause drowsiness or dizziness.

**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**

Toxic to aquatic life with long lasting effects.

**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**

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**SECTION 13: Disposal considerations**

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

**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>	080111
Type of waste	waste paint and varnish containing organic solvents or other dangerous substances
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>	150110
Type of waste	packaging containing residues of or contaminated by dangerous substances
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**

UN 1866

**14.2. UN proper shipping name**

RESIN SOLUTION

**14.3. Transport hazard class(es)**

3 Flammable liquids

**14.4. Packing group**

III - Less hazardous substances

**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

**Additional information**

The hazard identification number	<b>33</b> (Kemler Code)
UN number	<b>1866</b>
Classification code	F1
Safety signs	3



**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**Road transport ADR**

Special provision	640H
Limited amount	5 L
Extracted amounts	E1

**Packaging**

Packaging instruction	P001, IBC02, LP01, R001
Special provision for packaging	PP1,
Packing provisions	MP19

**Portable tanks and containers for open stored materials**

Guidelines	T2
Special provision	TP1

**Tanks ADR**

Code of the tank	LGBF
Vehicles for the transport in tanks	FL
Transport category	3
Tunnel restriction code	D/E

**Special provision for**

service	S2
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**Railway transport - RID**

Special provision	640H
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**Packaging**

Packaging instruction	P001, IBC02, LP01, R001
Special provision for packaging	PP1,
Packing provisions	MP19

**Portable tanks and containers for open stored materials**

Guidelines	T2
Special provision	TP1

**Tanks RID**

Code of the tank	LGBF
Transport category	3

**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****A list of standard risk phrases used in the safety data sheet**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**Guidelines for safe handling used in the safety data sheet**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235	Keep cool.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER if you feel unwell.
P321	Specific treatment (see Supplemental first aid instructions. 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.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use powder extinguisher to extinguish.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to local\regional\national\international regulations.

**A list of additional standard phrases used in the safety data sheet**

EUH 066 Repeated exposure may cause skin dryness or cracking.

**List of R-phrases used in the safety data sheet**

R 11	Highly flammable.
R 36	Irritating to eyes.
R 36/38	Irritating to eyes and skin.
R 43	May cause sensitisation by skin contact.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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.

**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

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

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
Aquatic Chronic	Hazardous to the aquatic environment
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

**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 the classification according to Regulation 1272/2008 (CLP).

**Statement**

**BETOLIT KP, W, NF, NF W component A**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

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.

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. 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  
Number  
Other names of the mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Intended use of the mixture  
Not recommended use of the mixture
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name  
Place of business or residency  
Telephone  
Fax  
E-mail  
Web address  
Emergency telephone number
- Competent person responsible for the safety data sheet**  
Name  
E-mail
- 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
- BETOLIT KP, W, NF, NF W component B  
mixture  
7-1, 7-9, 7-20, 7-22
- Two-component penetration coat on the basis of epoxy resins  
The product should not be used in ways other than those referred in Section 1.
- BETOSAN s.r.o.  
Na Dolinách 28, Praha 4, 147 00  
Czech Republic  
241 431 212  
241 431 212  
praha@betosan.cz  
www.betosan.cz  
241 431 212, 8,00-16,00
- BETOSAN s.r.o.  
praha@betosan.cz

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

A mixture is classified as dangerous.

Acute Tox. 4, H302, H312  
Skin Corr. 1B, H314  
Skin Sens. 1, H317

**The classification of the mixture according to Directive 1999/45/EC**

A mixture is classified as dangerous.

Harmful: Xn; R 21/22  
corrosive: C; R 34  
sensitising: R 43

Full text of all classifications, H-phrases and R-phrases is given in the section 16.

**The most serious adverse physicochemical effects**

Unknown

**The most serious adverse effects on human health and the environment**

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**2.2. Label elements****Warning symbol****Signal word**

Danger

**Hazardous substances**

2,2'-iminodiethylamine

**Hazard statements**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

**Instructions for safe handling**

P260	Do not breathe dust.
P261	Avoid breathing dust
P264	Wash hands and exposed parts of the body thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER.
P312	Call a POISON CENTER if you feel unwell.
P321	Specific treatment (see Supplemental first aid instructions. on this label).
P322	Specific measures (see additional instructions on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to local\regional\national\international regulations.

**Requirements for child-resistant fastenings and tactile warning of danger**

Container has to be fitted with a tactile warning of danger. Packaging should be equipped with child-resistant top.

**2.3. Other hazards**

not available

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Mixture of substances specified below and additives.

**Mixture contents these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Name of the substance	Content in % weight of the mixture	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No 1272/2008	Note
Index: 612-058-00-X CAS: 111-40-0 ES: 203-865-4	2,2'-iminodiethylamine	98	Xn; R 21/22 C; R 34 R 43	Acute Tox. 4, H302, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317	1

**Notes**

1 Substances for which there are exposure limits Community for working environment.

The full text of all standard phrases and guidelines is specified in Section 16.

**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**

Move the affected person to fresh air immediately while paying attention to your own safety; do not let the person walk! Depending on the situation, rinsing of the mouth and/or nose as appropriate with water can be recommended. Change the clothes of the affected person if contaminated by the substances. Protect the affected person against growing cold. Depending on the situation, call medical rescue service or ensure medical treatment considering the need of further observation for at least 24 hours.

**Skin contact**

Remove contaminated clothes immediately; take off any rings, watches, bracelets before or during washing if used in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Cover corroded parts of skin with sterile dressing; do not apply ointments or other medicines on the skin. Cover the person to ensure protection against growing cold. Depending on the situation, call medical rescue service or ensure medical treatment.

**Eye contact**

Rinse the eyes immediately with a flow of running water, open the eyelids wide (also using force if needed); remove contact lenses immediately if worn by the person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment, specialized if possible, as quickly as possible. Everyone must be referred for treatment even if affected only little.

**Ingestion**

DO NOT INDUCE VOMITING - danger of further damage to the gastrointestinal tract!!! Danger of esophageal and gastric perforation! RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Considering an almost immediate effect on the mucous membranes, providing tap water quickly is preferred to any delay due to looking for cooled liquids - the condition of the mucous membrane worsens irreparably with every minute of delay! Carbonated or mineral water is not suitable as they may release gaseous carbon dioxide. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs). The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT GIVE ACTIVATED CARBON! (It makes an examination of the gastrointestinal tract membranes more difficult due to their black colouring and does not have a favourable effect with acids and bases.) Do not give anything to eat. Do not give anything by mouth if the person is unconscious or if having cramps. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

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

Possible irritation of respiratory pathways, cough, headache.

**Skin contact**

Painful reddening, irritation.

**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**

The mixture is highly flammable. 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**

Remove all ignition sources; provide sufficient ventilation. Use personal protective equipment for work. 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.

**6.4. Reference to other sections**

7, 8 and 13.

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**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

8B - Non-combustible corrosive substances

Type of packaging

bucket

Material of package

FE (40), Steel (Metals)



FE

**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**

Czech Republic

Name of the substance (component)	CAS number	Limit values				Note
		PEL		NPK-P		
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
2,2'-iminodi(etha-1-amin)	111-40-0	4	0,948	8	1,896	I

Note

I irritating to mucous membranes (eyes, respiratory system) and skin

European Union

Name of the substance (component)	CAS number	Limit values				Note
		8 hours		Short-term		
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
2,2'-iminodiethylamine	111-40-0	4	1	8	2	

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**Other information of limit values**

1 ppm-skin TWA-OSHA (USA)

**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.

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

Appearance	liquid
physical state	liquid in 20°C
colour	clear liqui
Odour	of amine
Odour threshold	data not available
pH	data not available
Melting point/freezing point	-39 °C
Initial boiling point and boiling range	207 °C
Flash point	97 °C
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	100%
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	data not available

**9.2. Other information**

Density	0,95 g/cm <sup>3</sup>
auto-ignition temperature	data not available
combustion temperature	107 °C

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

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

The mixture is flammable.

**10.2. Chemical stability**

Under normal conditions, the mixture is stable.

**10.3. Possibility of hazardous reactions**

Under normal conditions, the mixture is stable.

**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**

No toxicological data is available for the mixture.

**Acute toxicity**

BETOLIT KP, W, NF, NF W component B

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining the value of	Source
oral	LD 50		1250 mg/kg		rat (Rattus norvegicus)			
dermal	LD 50		2000 mg/kg		rat (Rattus norvegicus)			
inhalation (vapor)	LD 50		2,1 mg/kg		rat (Rattus norvegicus)			

Harmful if swallowed. Harmful in contact with skin.

**Corrosion/skin irritation**

Causes severe skin burns and eye damage.

**Serious eye damage / eye irritation**

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

**Respiratory / skin sensitization**

May cause an allergic skin reaction.

**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**

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

**12.2. Persistence and degradability**

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

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**

not available

**13.1. Waste treatment methods**

not available

**Code of type of waste**

080111

Type of waste

waste paint and varnish containing organic solvents or other dangerous substances

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

**Code of type of waste packaging**

150110

Type of waste

packaging containing residues of or contaminated by dangerous substances

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**

UN 3267

**14.2. UN proper shipping name**

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

**14.3. Transport hazard class(es)**

8 Corrosive substances

**14.4. Packing group**

III - Less hazardous substances

**14.5. Environmental hazards**

not available

**14.6. Special precautions for user**

not available

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not available

**Additional information**

The hazard identification number

**80** (Kemler Code)

UN number

**3267**

Classification code

C7

Safety signs

8



**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

**Road transport ADR**

Special provision	274
Limited amount	5 L
Extracted amounts	E1

**Packaging**

Packaging instruction	P001, IBC03, LP01, R001
Packing provisions	MP19

**Portable tanks and containers for open stored materials**

Guidelines	T7
Special provision	TP1, TP28

**Tanks ADR**

Code of the tank	L4BN
Vehicles for the transport in tanks	AT
Transport category	3
Tunnel restriction code	E

**Special provision for**

transport of pieces	V12
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**Railway transport - RID**

Special provision	274
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**Packaging**

Packaging instruction	P001, IBC03, LP01, R001
Packing provisions	MP19

**Portable tanks and containers for open stored materials**

Guidelines	T7
Special provision	TP1, TP28

**Tanks RID**

Code of the tank	L4BN
Transport category	3

**Special provision for**

transport of pieces	W 12
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**Air transport - ICAO/IATA**

Packing instructions for limited amount of	Y841
Packing instruction passenger	852
Packing instruction cargo	856

**Marine transport - IMDG**

EMS (emergency plan)	F-A, S-B
Marine pollution	No

**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****A list of standard risk phrases used in the safety data sheet**

H302 Harmful if swallowed.

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

- H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

**Guidelines for safe handling used in the safety data sheet**

- P260 Do not breathe dust.  
P261 Avoid breathing dust  
P264 Wash hands and exposed parts of the body thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER.  
P312 Call a POISON CENTER if you feel unwell.  
P321 Specific treatment (see Supplemental first aid instructions. on this label).  
P322 Specific measures (see additional instructions on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container to local\regional\national\international regulations.

**List of R-phrases used in the safety data sheet**

- R 21/22 Harmful in contact with skin and if swallowed.  
R 34 Causes burns.  
R 43 May cause sensitisation by skin contact.

**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.

**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

**BETOLIT KP, W, NF, NF W component B**

Creation date	24. March 2015	Revision no.	
Date of revision		Version	1

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
UCVB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Skin Corr	Skin corrosion
Skin Sens.	Skin sensitization

**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 the classification according to Regulation 1272/2008 (CLP).

**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.