



TECHNICAL DATA SHEET

Date: 17.8.2016

Product name:	Emergency putty antifreeze
Description:	Plastic sealing putty, packaged airproof in plastic bin - the product is insulated against drying
Colour:	Dark grey
Composition:	Bentonite, water, fungicide, antifreeze additive Mixture of mineral powders
Suitability:	It is recommended to store the products at the temperatures from -15°C to 30 °C , during freezing the product is not damaged-after defrosting is usable without limits The expiration date is stated on 14 months after the production date
Recommended use:	Emergency putty for temporary sealing of the holes, which are leaking out dangerous liquids. It is possible to use for the repair of the holes up to 2,4 m of hydrostatic height. Durability of the repair is 48 hours -it is possible to prolonge with use of the bandage.

List of products Code	Volume l	Number pcs/box	Packaging	Weight netto kg/pc	Dimensions of the box/cm	Palett cm	No./pal box/pal
Leak Block	puck	20	blister/box	0,15	23 x31 x 15	120 x 80	80
5 PMPA	0,5	18	dose/box	0,60	40 x 40 x 15	120 x 80	60
10 PMPA	1	9	dose/box	1,35	40 x 40 x 15	120 x 80	60

The above mentioned properties are "nominal" values for the process control when the products are produced and/or inspected.

Labeling	Every package should be labeled with name and the address of the supplier, product code, expiration date. Every package contains the user guide.
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Efficiency for chemicals:

Acids

Lactic acid
Hydrochlorid acid 37,90%
Acetic acid 99,50%
Nitric acid 69,50%

Bases:

Sodium hydroxide 40%
Liquid caustic soda

Alcohols:

Ethanol
Propanol
Methanol 99%
Mineral alcohols

Solvents:

Trichlorethylen
Perchlorethylen
Toluene
Gasoline
Hexane

Other liquids

Ethylenglykolmonobutylether
Diethylenglykolmonobutylether
Ethylendichloride 99%
Amylacetate 99%
Methylenchloride 99%
Water based paints
EDC (acidic)
EDC (alkaline)
Methylisobutylketone 99%

Emergency putty is not efficient for these liquids:

Phosphoric acid, Hydrofluoric acid, Triethylamine 99%, Sulphuric acid 96%, Hydrogen peroxide 15%



SAFETY INFORMATION

COMPOSITION/ INGREDIENTS	1) Bentonite 60-64% Synonyms: Natrium-bentonite, Calcium-bentonite, Montmortillonite alkalic activated bentonite 2) Mixture of natural mineral substances < 1% (SiO ₂ , soda ash flux calcinated, cristoballite, quartz) 3) Fungicide 0,9 % 4) Monopropylenglycol 25-27 % 5) Water 9-11%
CAS No:	1) Bentonite: 1302-78-09 (EG Nr. 215-108-5) 2) Cristoballite 14464-46-1 Soda ash flux 68855-54-9 Polyethyleneglycol 25322-68-3 Quartz 14808-60-7 3) Fungicide 63449-41-2 4) Monopropylenglycol 57-55-6
HAZARD IDENTIFICATION Classification of the substance Physico-chemical hazards Human health dangers Environmental hazards Other hazards Hazard symbols R-phrases	Product is not classified as dangerous according to the Czech law Act. No. 350/2011 No particular hazards known No particular hazards known No particular hazards known None None none
FIRST AID MEASURES General advise Inhalation Skin contact Eye contact Swallowing	In case of health troubles, seek medical advise Not relevant Wash skin with soap and plenty of water Wash immediatelly with water, even the eye caps, medical care if necessary Drink plenty of water. By ingestion of large quantities medical treatment if necessary.
FIRE FIGHTING MEASURES Suitable extinguishing media Specific danger Personal protective appliances Further informations	Non-flammable product, it is possible to use all extinguishing media No relevant None special None special
EXPOSURE CONTROL/ PERSONAL PROTECTION Respiration protection Eye protection Hand protection Skin protection General safety and hygienic measures	Control limits and methods/Personal protective equipment Not necessary Not necessary Protective gloves Protective coveralls, sealed footwear Observe personal hygienic regulations. Do not eat, drink and smoke during work. Wash thoroughly hands and uncovered body parts with with soap and water after handling and before eating or drinking. Treat skin with a mild skin restoring cream.

Environmental exposure control limits and methods	No recommendation
PHYSICAL AND CHEMICAL PROPERTIES Physical state at 20 C Colour Odour Flammability Lower exposure limit-dust (g/m ³) Oxidizing properties Density (kg/m ³) Solubility in water (g/l) Solubility in fats (g/l) Melt point (C)	solid plastic putty grey odourless non-flammable product no 1220 insoluble insoluble
STABILITY AND REACTIVITY Conditions recommended Conditions to avoid Material not recommended to be in contact with the products Hazardous decomp. Products	The products are stable at normal conditions Temperatures below -15°C Triethylamin, Sulfuric acid, Phosphoric acid, Hydrogen peroxide Hydrofluoric acid, Muriatic acid No known
TOXICOLOGY INFORMATION Effects dangerous to health Accute toxicity Inhalation Ingestion Skin Eyes Longterm and chronic effects	The products have no toxical impact Not applicable Not expected. Ingestion of large quantity may cause vomiting. No known effects Not expected. Irritation may arrise in case of contact with eye. No known effects
ECOLOGICAL INFORMATION Ecotoxicity Mobility Persistence and degradability Bioaccumulative potential	No known negative impact on the environment Not applicable Not applicable Not applicable
DISPOSAL	Material not used can be disposed on a controlled place of discharge as normal disposal. After use the putty should be disposed according to the regulations in force for disposal of contamination fluid.
TRANSPORT Transport classification Special transport precautionary measures	Product is not classified as dangerous goods according to the transport regulations Not applicable