

**1. Identification of the preparation and company****1.1. Product name and / ore code:**

Trade names: Brantho-Korrux "3 in 1" and Brantho-Korrux "nitrofest"  
 Intended use: Corrosion protective coating, protective coating for various substrates

**1.2 Manufacturer information, Name, full address and telephone of company:**

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 Postfach 11 07, D-21503 Hamburg \* Biedenkamp 23, D-21509 Hamburg  
 Information through: SALES / TECHNICAL SERVICE: +49 40-36 97 40-14  
 Emergency phone: Laboratories- and management: +49 40-39 92 50-10

**2. Composition / information on ingredients**

Description: high solid coating, air drying  
 Hazardous substances: see chapter 8.2.  
 Indication: does not contain hazardous compounds

**3. Hazards identification of the preparation**

**Particular hazard record for humans and environment:** The compound is classified as non-hazardous according the EU-directive 88/379/EEC

No danger symbols. R 10 flammable

**4. First Aid measures**

**General:** In all cases of doubt, or when symptoms persist, seek medical attention.  
 Never give anything by mouth to an unconscious person.  
**Inhalation:** Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.  
**Eye contact:** Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.  
**Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleaner. Do **NOT** use solvents or thinners.  
**Ingestion:** If accidentally swallowed obtain immediate medical attention. Keep at rest. Do **NOT** induce vomiting

**5. Fire-fighting measures**

**Extinguishing media:** recommended: alcohol resistant foam, CO2, powders, water spay  
**not suitable:** water-jet  
**Recommendations:** fire will produce dense black smoke. Inhalation of decomposition products may cause a health hazard.  
**Additional protection:** when fire fighting appropriate breathing apparatus is required.  
**Additional recommendation:** sealed containers in the proximity should be cooled with plenty of water. Disposed water should not be allowed entering drains.

**6. Accidental release measures**

**Personal protection:** Refer to instructions listed in sections chapter 7 and 8  
**Environmental protection:** Do not allow entering drains or watercourses. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.  
**Cleaning/disposal:** Mechanically or contain and collect spillage with non-combustible absorbent materials.

**7. Handling and storage****7.1 Handling**

**Recommendations for safe handling:** the product should only be used in areas from which naked lights and other ignition sources have been excluded. Electrical equipment should be protected to the appropriate standard. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in application area.  
 For personal protection: see section 8.  
 Comply with the local health and safety laws at work.

### Storage

**Requirements for storerooms and containers:** Keep containers closed. Do not empty using pressure. Smoking prohibited. No access for unauthorised persons. Containers that are opened must be resealed carefully and kept upright to prevent leakage.

**Combined storage:** Keep away from oxidising agents, strong alkaline and strong acid materials.

**Additional storage requirements:** Store in original containers. Observe label precautions. Store in well-ventilated, cool and dry, areas; away from sources of heat and direct sunlight. Keep away from sources of ignition.

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid concentrations higher than the occupational exposure limits.

## 8. Exposure control / personal protection

**8.1 Engineering measures:** Provide adequate ventilation. Where reasonably practical this should be achieved by the use of local exhaust ventilation and good general extraction.

**8.2 Occupational exposure limits / compounds requiring observation of TLV values:**

Hydro Carbons (aromatic-free)	CAS-No. 64742-48-9		
TLV-value TRGS 900/901:	1000 mg/m <sup>3</sup>	200 ppm	200 ml/m <sup>3</sup>
R 10, 65; S 2, 23, 38, 51	proportion 10 -16%		
1-Methoxy-2 Propanol	CAS No. 107-98-2		
TLV-value TRGS 900/901:	375 mg/m <sup>3</sup>	100 ppm	100 ml/m <sup>3</sup>
R 10, S 2, 23, 24, 38, 51	proportion 10 - 12%		
Butylacetate	CAS-No. 123-98-4		
TLV-value TRGS 900/901:	475 mg/m <sup>3</sup>	100 ppm	100 ml/m <sup>3</sup>
R 10, 66, 67; S 2, 24, 25, 38, 51	proportion 2 - 3% ("nitrofest" 0%)		

## 8.3 Personal protection

**Protective and hygiene measurements:** All parts of the body should be washed after contact. Smoking, eating and drinking is prohibited during working.

**Respiratory protection:** When workers are facing concentrations above the exposure limit acc. 8.2 or when aerosols might occur they must use appropriate certified respirators.

**Hand protection:** For prolonged or repeated contact, use appropriate gloves. Barrier crèmes may help to protect the exposed areas of skin, however they are no substitute for gloves.

**Eye protection:** Use safety eye-wear designed to protect against splash of liquids.

## 9. Physical and chemical properties

Physical state:	liquid	Colour: various
Smell:	mild-aromatic	
Change in condition:	thickening due to evaporation of solvents in opened cans.	
Flash point (DIN 53213)	26°C	
Ignition temperature (DIN 51794)	> 240°C	
Fire supporting properties / Auto ignition:	yes / no	
Explosion hazard due to:	evaporation	
Explosion limits lower/high	l.e.l.: 0,5 vol.-%	o.e.l.: 11 vol.-%
Vapour pressure at 20°C:	5-15 h Pa (literature value)	
Density: (depends on colour)	1.1 – 1.4 kg/litre	
Solubility in water at 20°C:	ca. 5%	
Viscosity at 20°C, (DIN 53211/4 mm):	> 120 sec.	
at 20°C, (DIN ISO 2431/6 mm)	> 75 sec.	
Solvent content:	30-33% by weight (depends on colour)	
Solids content:	68% by weight	
pH value:	-	

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**Environment Friendly Coatings Ltd**

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**10. Stability and reactivity**

- 10.1 Circumstances to avoid:** Stable under recommended storage and handling conditions. (see section 7).
- 10.2 Compounds to avoid:** Keep away from oxidising agents, strong alkaline and strong acid materials in order to avoid exothermic reactions.
- 10.3 Hazardous decomposing products:** exposure to high temperatures may cause hazardous decomposition products such as carbon monoxide and dioxide, smoke oxides of nitrogen.

**11. Toxicological information**

**General;** there are no data available on the preparation itself, however the product is classified according conventional methods (calculation according EU-directive 88/379/EEC). See chapter 2 and 15. Practical experience shows, that repeated or prolonged contact with the preparation causes removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashed in the eyes may cause irritation and reversible damage.

**12. Ecological information** By formulation the product does not contain heavy metals and no compounds according EG-directive No. 76/464 EEC.

There are no data available on the preparation itself.

The product should not be allowed to enter drains or watercourses.

**13. Disposal information**

**Product:** We recommend using the product completely. Waste material should be disposed of (see local directions).

**Containers:** Empty containers entirely. Fully emptied, dry containers can easily be recycled as high quality scrap material.

**14. Transport information**

**Transport in accordance with ADR / RID:** not subject to hazardous classification for transport by land.

**Transport in accordance with IMDG:** not subject to hazardous classification for transport by sea.

**Transport in accordance with ICOA-TI and IATA-DGR:** Marine pollutant: no. Proper shipping name: paint

UN no.: 1263/Kl. 3/PG-No. III.

EmG-No. / MFAG-No.: 3-05 / 313

**15. Regulatory information**

Classification in accordance with EG directive 88/379/EWG non-hazardous compound

**Symbol:** No symbol **R-phrases:** R 10 **S-phrases:** S 2, S 23, S 38, S 51

**Explanation:** R 10 flammable; S 2 Keep out of reach of children S 38 In case of insufficient ventilation wear suitable respiratory equipment S 51 Use only in well ventilated areas.

Additional compound information (see chapter 2 and 15) S 24 Avoid skin contact S 25 Avoid eye contact R 66 repeated skin-contact may cause skin-embrittlement and chapped skin. R 67 Vapours may cause sleepiness.

**16. Other information**

The information of this MSDS is based on the present state of our knowledge and on current EEC and national laws. Users' working conditions are beyond our knowledge and control. The product is developed to meet the highest environmental standards, it should not to be used for other purposes than those specified under section one. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information herein is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

The information given in this Safety Sheet is given in accordance with EEC-directives 91/155/EWG and 88/379/EWG.

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