

1. Identification of the substance/preparation and of the company/undertaking

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.

Direct from can for brush and roller application; diluted for spraying, dipping, floating and pouring. Both interior and exterior by manual, semi-automatic or automatic application. for industrial, commercial, handwork and hobby sector.

1.2. Company/undertaking identification:

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(Mo.-Th. 8⁰⁰-16⁰⁰, Fr. 8⁰⁰-13⁰⁰) Emergency phone: (in Germany) Giftnotrufzentrale Göttingen: 0551-19240

Imported in the UK by: IPCS Ltd., Daryngton Avenue, Birchington, Kent. CT7 9PS

Tel. 01843 845472 Fax. 01843 847722

2. Hazard identification

Particular hazard record for humans and environment: The compound is classified as non-hazardous according to the EU-directive 1999/45/EU, no danger symbols required.

Possible hazards: R 10 flammable

3. Composition/information on ingredients

Description: high solid coating, air drying

Hazardous substances: see chapter 8.2.

Indication: does not contain hazardous compounds

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 immediately.

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

Long term: Serious long term effects are not known for the substances used in this preparation. In spite of

effects: opposite scientific knowledge we recommend to seek medical attention after ingestion and vomiting

5. Fire-fighting measures

Extinguishing media: recommended: alcohol resistant foam, CO₂, powders, water spray

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 comments: 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

7.2 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 wellventilated, 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 controls / 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

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

Substance CAS-No EINECS TLV-value proportion Classification TRGS 900/901

Hydro Carbons 64742-48-9 265-150-3 1000 mg/m³ 10 -16% R 10, 65;

(aromatic-free) 200 ppm S 2, 23, 38, 51

200 ml/m³1-Methoxy-2 Propanol 107-98-2 203-539-1 370 mg/m³ 10 - 12% R 10

100 ppm S 2, 23, 24, 38, 51

100 ml/m³Butyl acetate 123-98-4 204-658-1 480 mg/m³ 2 - 3% R 10, 66, 67

100 ppm "nitrofest" 0% S 2, 24, 25, 38, 51

100 ml/m³**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 exposed over the occupational exposure limits (o.e.l.) acc. 8.2 or when aerosols might occur they must use appropriate certified respirators. Please check application conditions and rules of the relevant association (rules for using reparatory protective equipment). Also include "delayed emission of solvent from the product. During manual application outdoors, (brush, roller) and single person application in a large, well ventilated, building the concentration will be less than 75% of the o.e.l. When spraying outdoors, respectively and single person application in a large, well ventilated, building this is comparative; however, in these cases the possible risk of a fine aerosol should be considered when choosing the appropriate respirator (follow manufacturers' recommendations). On the contrary an appropriate fresh air supply is required when applying these products in confined areas (vessels/tanks) or, in similar cases air-fed masks/respirators shall be used. At spray application the exposure due to aerosol depends on the spray method; as an example we use a diminishing sequence: electrostatic spray, airless spray, air-atomised (conventional) spray, HVLP-spray – respiratory protection can be selected from the manufacturer's recommendations and local situation. In order to avoid the dangers caused by solvent vapours a table in §16 where the minimal air-supply is calculated during a regular application, to be supplied per litre of applied product, to stay below the o.e.l. When ventilating please consider that solvent vapours are heavier than air.

Hand protection:

Wear gloves that are suitable for chemicals according EN 374. The gloves shall be certified for suitability for the exposure regarding resistance, anti-static properties, etc. Please follow the recommendations of the manufacturer of the gloves. Protective gloves shall be replaced immediately when damaged or at first signs of wear and tear. Application should be planned at a way that it is not necessary to wear protective gloves during an extended period of time. Suitable materials are: Nitrile-rubber; material strength: > 0.4 mm, penetration time: > 480 minutes. At longer exposure, not interrupted, with liquid paint or thinner a corresponding higher material strength or gloves with a barrier layer shall be used. Follow manufacturer's recommendations.

The solvents used in the products described in this safety sheet are not absorbed through the skin (skinabsorptive). 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, especially when paint-stained skin is repeatedly cleaned with aggressive cleaners/solvents. If the application conditions are impeding that gloves are not worn, it is recommended to use barrier creams before and after. Barrier crèmes may help to protect the exposed areas of skin; however they are no substitute for gloves.

Eye protection: In case of splashes wear protective glasses according EN 166**Skin protection:** During normal application with brush and roller extra skin protection is not required, as the solvent vapours are not absorbed by the skin. If, due to application conditions or method, the risk of contact cannot be avoided, electrostatic conducting (protective) clothing (cotton) can be worn. Follow manufacturer's recommendations.**8.4 Environmental Data:** The preparation is not subject to "environmental hazardous-N" registration.**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: -

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.

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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 preparation is assessed according conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. Please refer to chapter 3, 8 and 15. Liquid splashed in the eyes may cause irritation and reversible damage. Generally the combination of solvent vapours and alcohol consumption is considered health endangering. Exposure to solvent vapours above the stated o.e.l. may lead to adverse health effects such as: irritation of the mucous membranes and respiratory organs, headache, dizziness, fatigue and adverse effects to the kidneys and liver, central nervous system and, in extreme cases, loss of consciousness.

The preparations contain: binders/resins (natural and synthetic-modified), organic and/or inorganic pigments (titanium dioxide, talcum, iron oxide), aromatic-free solvents (see 8.2), lead-,zinc- and chromate free anti-corrosive pigments, additives (<1%) e.g. Butanoxim, cobalt salts. Substances may cause allergic reactions.

Upon request (in case of allergic suspicion) the preparation can be manufactured without Butanoxim (skininformation) and/or cobalt salts (slower curing) as custom coatings.

When covering large areas with solvent containing coatings in confined spaces (buildings) it is recommended to properly ventilate during and after application. Also during the following days regular ventilation is effective.

12. Ecological information

By formulation the product does not contain heavy metals and no compounds according EG-directive No. 76/464 EEC. Please refer to information in chapter 6, 10,3 and 15. The product should not be allowed to enter drains or watercourses.

Information concerning REACH Directive:

Our coatings contain binders, pigments, solvents and additives, totally over 1000 substances. Substances requiring admission are not included to our present knowledge. Substances of natural origin are not subject to registration. For the mayor part (poly-condensation products) the EU has extended the registration until 2018. Our suppliers have been informed regarding the application and exposition scenarios. Pre-registration, registration of the substances will take place as stipulated in the following years. When essential new knowledge occurs we will directly adapt our MSDSheets, or otherwise, after the conclusion of all relevant registrations.

13. Disposal considerations

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

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

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

14.3. 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 1999/45/EU: non-hazardous preparation

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 exposure may cause skin dryness or cracking. R 67 Vapours may cause drowsiness and dizziness.

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 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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