

EU 1907/2006 Material Safety-Data-Sheet Brantho-Korrux and other Branth's 1K-paints/coatings

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page 1/3 + appendix tentative translation

group 1; trade names: Brantho-Korrux "3 in 1", Brantho-Korrux "nitrofest", Branth's Haftgrund-Spezial "HgS", Branth's Rostschutz-Mennige, bleifrei "Rmb", Branth's Robust-Lack, Brantho-Korrux "normal", Branth's S-Glasur, Branth's Kristall-Glasur

Branth-Chemie A.V. Branth - Biedenkamp 23 * D-21509 Glinde/Hamburg, Germany

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

Company/undertaking identification

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Product name and/ore code

Trade name
Intended use

"3 in 1" | "nitrofest" | HgS | Rmb | Robust-Lack | "normal" | S-Glasur | Kristall-Gl.
protective coating, paint, enamel, varnish
direct from can for brush and roller application; diluted for spraying, dipping, floating and pouring
interior and exterior; manual, semi-automatic or automatic application,
for industrial-, commercial-, workman like- and hobby-sector

2. Hazard identification

Description

high solid coating, air drying; flammable

possible hazards

-/R10 | -/R10 | -/R10 | -/R10 | -/R10 | -/R10 | -/R10, 66 | -/R10, 66

3. Information on Ingredients

Dangerous substances %-share

entaram. KW; CAS 64742-48-9	10-16	10-19	10-12	10-12	15-19	15-19	25-35	40-50
PM; CAS 107-98-2	10-12	5-10	10-12	8-10	10-12	0-1	--	--
n-Butylacetate; CAS 123-86-4	1-3	--	1-3	1-3	1-3	--	--	--
Methylactate; CAS 547-64-8	1-2	--	1-2	2-3	--	0-1	--	--
PGDA; CAS 623-84-7	1-2	--	1-2	2-3	--	0-1	--	--
EPA; CAS 54839-24-6	1-2	--	2-3	1-2	--	--	--	--
Butanonoxim; CAS 96-29-7	< 0,9	< 0,9	< 0,9	< 0,9	< 0,9	--	--	< 1
Cobaltsalt; CAS 68409-81-4	< 0,7	< 0,7	< 0,7	< 0,7	< 1	< 1	< 1	< 1
PMA; CAS 108-65-6	--	--	--	--	10-12	0-1	--	--

Continued on page 4: Detailed Informationen see appendix Material-Safety-Data-Sheet.

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

5. Fire-fighting measures

Extinguishing media: recommended; alcohol resistand 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 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-combuistible absorbent materials.

7. Handling and storage

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 from 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.

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Die Prüffallhöhe der 5-ltr.-Gebinde beträgt 1,2 m.
Lagerklasse: 3 A (entzündliche flüssige Stoffe)

8. Exposure controls / personal protection

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

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 equipment). During manual application outdoors, (brush, roller) and single person application in a large, well ventilated building the concentration is usually 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 manufacturer's recommendations). 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: HVLP-spray, electrostatic spray, airless spray, air-atomised (conventional) 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 chapter 15 where the minimal air-supply is calculated during 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.

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 help to protect the exposed areas of skin.

Eye protection: In cases of possible splashes wear protective glasses according EN 166.

Skin protection:

During normal application with brush and roller extra skin protection is not required. 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

Environmental Data: The preparation is not subject to "environmental hazardous-N" registration.

9. Physical and chemical properties

Trade names	"3 in 1"	"nitrofest"	HgS	RMb	Robust-Lack	"normal"	S-Glasur	Kristall-Gl.
physical state	liquid - viscous							
colour	various	grey 7038	orange	various		colourless		
Smell	aromatic	aromatic-mild		aromatic	mild			
change in condition	thickening due to evaporation of solvents in opened cans							
Flash point (DIN 53213)	26° C		24° C	37° C	28° C			
Ignition temperature (DIN 51794)	> 240° C							> 200° C
Fire supporting properties/Auto ignition	no/no							
Explosion hazard due to	evaporation							
Explosion limits lower/higher	0,5/11 (from literature)							
Vapour pressure at 20° C	5-15 h Pa (from literature)							
Density at 20° C (depends on colour)	1,1-1,4	ca.1,35	ca. 1,5	ca. 1,1	1,2-1,5	ca. 1,1	ca. 0,9	
Solubility in water at 20° C	ca. 10 %					< 1 %		
Viscosity at 20° C 4 mm (DIN 53211) bzw. 6 mm (ISO 2431)	> 140 > 75	ca. 150 > 75	> 200 > 80	> 140 > 75	ca. 330 200	> 140 > 75	> 75 --	
Solvent content (% by weight)	ca. 30		ca. 25	ca. 40	ca. 15	ca. 40	50	
Solids content/ph value	ca. 70/-		ca. 75/-	ca. 60/-	ca. 85/-	ca. 60/-	50/-	

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10. Stability and reactivity

Circumstances to avoid: Stable under recommended storage and handling conditions (see section 7).

Compounds to avoid: Keep away from oxidising agents, strong alkaline and strong acid materials in order to avoid exothermic reactions.

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: see chapter 3. (page 1) and appendix (page 4)

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 (skin-formation) 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 1.000 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 after 2018. Our suppliers have been informed regarding the application and exposition scenarios. Registration of the substances takes place as stipulated. When essential new knowledge accours we will directly adapt our MSDS-Sheets, 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

land transport in accordance with ADR/RID and GGVS/GGVE: not subject to hazardous classification

transport by sea in accordance with IMDG/GGVSea: not subject to hazardous classification.

unterliegt nicht den Gefahrgut-Transportvorschriften; keine Gefahrgutkennzeichnung, aber IMO-Erklärung erforderlich "LQ"

transport by air in accordance with ICAO-TI und IATA-DGR:

Marine Pollutant: no; proper shipping name: paint; UN-Nr. 1263/Kl. 3/PG-Nr. III, EMG-Nr./MFAG-Nr.: F-E, S-E

15. Regulatory information

Classification in accordance with EG directive 1999/45/EU: non-hazardous preparation

Trade name	"3 in 1"	"nitrofest"	HgS	Rmb	Robust-Lack	"normal"	S-Glasur	Kristall-Gl.
class of risk / symbol	no/no							
R-/S-phrases: (Wortlaut s. Anhang)	R10 / S2, S23, S38, S51						R10, 66 / S2, 23, 38, 51	
TA-Luft (Gew. %): Kl. I / II / III	0 / 0 / 30		0 / 0 / 36-40		0 / 0 / 20		0 / 0 / 36-40 0 / 0 / 50	
Water polluting danger	1 = small potential							
VbF-label/class	no/no							
VOC-value (g/l)	< 400	< 420	< 400	< 380	< 410	< 300	< 360	< 450
Mindestfrischluftmenge je Liter ca.	800 m ³			750 m ³	900 m ³	500 m ³	900 m ³	1.000 m ³
Productcode nach GISBAU	BS 40 (M-GP02, M-LL01)			BS 40 (M-GP02)	M-LL01 (BS 40)	BS40 (M-GP02, M-LL01)	M-LL01	M-KH02

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 fulfill 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's properties.

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

Appendix, Substance from the Safety-Data-Sheet chapters 3., 8., 11. und 12.

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entarom. KW; CAS 64742-48-9; aromate free hydrocarbons, Naphtha (Erdöl, mit Wasserstoff behandelt, schwer), EG 265-150-3; EINECS 265-150-3; INDEX 649-327-00-6; **Xn; R10**, 65, 66; S2, 23, 38, 51; AGW (TRGS 900) 600 mg/m³
Ingestion: LD 50 rat > 2000 mg/kg; Skinabsorption: LD 50 rat > 2000 mg/kg; Inhalation: LD 50 rat > nahezu gesättigte Dampfkonzentration, 4 h;
Ecology: LC50 fish > 1000 mg/l; LC50 Wirbellose < 1000 mg/l; LC50 Algen > 1000 mg/l; LC50 Mikroorganismen < = 10; Leicht biologisch abbaubar; WGK 1.

PM; CAS 107-98-2; 1-Methoxy-2-propanol; EG 203-539-1; EINECS 203-539-1; INDEX 603-064-00-3; **R10**; S2, 23, 24, 38; AGW (TRGS 900) 370 mg/m³ 100 ppm Spitzenbegr. 2; IOELV (EU): TWA 375 mg/m³ 100 ppm; STEL 568 mg/m³ 150 ppm; Ingestion: LD 50 rat 7.200 mg/kg; Inhalation: LC 50 rat 54,6 mg/l 4 h; skinabsorption: LD 50 rabbit 14.000 mg/kg; Leicht biologisch abbaubar (90 %, 28 d, OE CD 301 E); Fish toxizität: LCO Leuciscus idus melanotus > 4.600 mg/l 96 h; WGK 1

n-Butylacetate; CAS 123-86-4; EG 204-658-1; EINECS 204-658-1; INDEX 607-025-00-1; **R10**, 66, 67; S2, 24, 25, 38, 51; AGW (TRGS 900) 480 mg/m³ 100 ppm; Ingestion: LD 50 rat 13.100 mg/kg; Inhalation: LC 50 rat > 21 mg/l 4 h; skinabsorption: LD 50 rabbit > 17.600 mg/kg; Leicht biologisch abbaubar: 98 % 28 d (OECD 301 D); Fish toxizität: LC 50 Leuciscus idus melanotus 62 mg/l 96 h (DIN 38412); Daphnientoxizität: EC 50 Daphnia magna 72,8 mg/l 24 h (DIN 38412); WGK 1

Methylactate; CAS 547-64-8; Milchsäuremethylester; EG 208-930-0; EINECS 208-930-0; INDEX 607-092-00-7; **Xi; R10**, 36, 37; S2, 24, 25; AGW (TRGS 900) kein Wert ausgewiesen; Ingestion: LD 50 rat > 2.000 mg/kg; Leicht biologisch abbaubar (log PO/W: 0,53); WGK 1

PGDA; CAS 623-84-7; Propyleneglycoldiacetate; EINECS 210-817-6; lt. EU-criteria: **not dangerous**;
Ingestion: sehr geringe orale Toxizität, gesundheitliche Wirkungen werden beim Verschlucken kleiner Mengen nicht erwartet; LD 50 rat > 5.000 mg/kg; eye contact: In der Regel nicht reizend für das Auge; skin contact: Längerer Kontakt kann leichte Hautreizungen mit lokaler Rötung verursachen. Hautresorption gesundheitsschädlicher Mengen ist auch bei längerer Exposition unwahrscheinlich; LD 50 rabbit > 2.000 mg/kg. Keine sensibilisierenden skin reaktionen bei guinea pig. Inhalation: Es ist unwahrscheinlich, dass eine einmalige Exposition gefährlich ist. Nennenswerte Nebenwirkungen sind bei wiederholtem Kontakt nicht zu erwarten, LC 50 6 h Dampf rat 129 ppm. Keine Geburtsschäden bei Labortieren. Keine Beeinträchtigung der Fortpflanzungsfähigkeit bei Tierversuchen, auch in vivo Genotoxizitätsstudien waren negativ.
Leicht biologisch abbaubar (40,4-69,9 %, 28 d, OECD 301 B). Schädlich für die empfindlichste Spezies Wasserorganismen (LC 50 / EC 50 / IC 50 10-100 mg/l), Fish toxizität: LC 50 Guppy 82 mg/l, Daphnientoxizität: LC 50 Daphnia Magna (Großer Wasserfloh) 237 mg/l; WGK 1

EPA; CAS 54839-24-6; Ethoxypropylacetate, 2-Ethoxy-1-methylethylacetate, EG 259-370-9, INDEX 603-177-00-8, **R10, 67**
AGW (TRGS 900) 200 mg/m³ Spitzenbegr. 2 (II)
Ingestion: LD 50 rat 4.755 mg/kg; Inhalation: LC 50 rat 6,99 mg/l 4 h; skinabsorption: rabbit minor skin irritation (OECD 404); eye contact: rabbit schwache eye irritation (OECD 405);
Leicht biologisch abbaubar 100 % 28 d; keine Bioakkumulation; Fish toxizität: LC 50 Oncorhynchus mykiss 140 mg/l 96 h; Daphnientoxizität: EC 50 Daphnia Magna 110 mg/l 48 h; Bakterientoxizität: EC 10 Pseudomonas putida 560 mg/l 16 h; WGK 1

Butanonoxim; CAS 96-29-7; Methylalkylketoxim; EINECS 202-496-6; INDEX 616-014-00-0; **Xn, Xi, R40**;
AGW (Herstellerangabe) 3 ml/m³ = 10 mg/m³ (8 Std. Mittelwert); R21, 41, 43 Carc. Cat. 3
Ingestion: LD 50 rat 3,68 g/kg; Inhalation: LC 50 rat > 4,8 mg/l 4 h; skinabsorption: LD 50 rabbit 0,92 g/kg
Biologisch abbaubar (verdünnt): 88 % 28 d; Fish toxizität: LC 50 Pimpephales promelas > 10.000 mg/l 24 h; WGK 1

Cobaltsalt; CAS 68409-81-4; Fettsäure, C6-19 verzweigt, Cobalt(2+)-salte; EINECS 270-066-5; **Xn, N, R22, 38, 43, 51/53**;
Ingestion: LD 50 rat 3900-1.200 mg/kg; Cobaltoktoat; Sensibilisierung durch skin contact möglich;
Cobaltverbindungen falls bioverfügbar in Form atembare Stäube Carc. Cat 3 (TRGS 905). Ein gewisses Gefährdungspotential ist gegeben, wenn cobalthaltige Stoffe versprüht werden, in diesen Fällen kann es bioverfügbar werden. The actual cobalt content in the paint is between 0,006 % and bis 0,009 %; WGK 2

PMA; CAS 108-65-6; 2-Methoxy-1-methylethylacetate; EG 203-603-9; INDEX 607-195-00-7; **Xi, R10, 36**
AGW (TRGS 900) 270 mg/m³, Spitzenbegr. 1; IOELV (EU): TWA 275 mg/m³; STEL 550 mg/m³
Ingestion: LD 50 rat 8.532 mg/kg; Inhalation: LCO rat 23,8 mg/l 6 h; skinabsorption: LD 50 rat > 5.000 mg/kg;
Skin contact: no irritation; eye contact: irritated the eyes; Nicht sensibilisierend (guinea pig), Maximierungstest)
Leicht biologisch abbaubar: 100 % 8 d (Zahn Wellens Test EG 88/302); Fish toxizität: LC 50 Quorhynchus mykiss 100-180 mg/l 96 h OECD TG 203; Daphnientoxizität: EC 50 Daphnia magna > 500 mg/l 48 h (RL 67/548/EWG Anh.V.C2); Bakterientoxizität: Belebtschlamm > 1.000 mg/l 0,5 h, WGK 1

Explanation; R- und S-phases:

Xi = irritant; Xn = injurious to health; N = environmental hazardous.

R10 flammable; R21 Harmful in contact with skin; R22 Harmful if swallowed; R36 Irritating to eyes; R37 Irritating to respiratory-system; R40 Possibility of cancerogenous effect; R41 Risk of serious damage to eyes; R43 May cause sensitization by skin contact; R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment; R65 Harmful, may cause lung damage if swallowed; **R66 Repeated exposure may cause skin dryness or cracking**, R67 Vapours may cause drowsiness and dizziness. S2 Keep out of reach of children, S23 Do not inhale vapor/spray; S24 Avoid contact with skin; S25 Avoid eye contact; S38 In case of insufficient ventilation wear suitable respiratory equipment; S51 Use only in well-ventilated areas.