

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

Trade names: Branth's 2-Kompo "Anti-Graffic"
Intended use: protective coating

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

BRANTH CHEMIE, A.V. BRANTH, – Tel. +49 40-36 97 40-0 Fax +49 40-36 71 48
Postfach 11 07, D-21503 Glinde / Hamburg * Biedenkamp 23, D-21509 Hamburg
Information through: SALES / TECHNICAL SERVICE: +49 40-36 97 40 0 or BrabCoat: +31 165 53 33 77
Emergency phone: Laboratories- and management: +49 40-39 92 50-13

2. Composition / information on ingredients

Description: 2-component, high-gloss, air drying protective coating zinc and chromate free, bas on a pur/acrylic binder and polyurethane converter N. (mixing ratio 4 : 1).

Hazardous substances:

Substance	CAS-number	EG-number	Weight %	Symbol	R-phrases
Xylene-isomer mixture	1330-20-7	2155357	ca. 2%	Xn	10, 20/21, 38
2-Methoxy-1-methylethylacetate	108-65-6	203-603-9	ca. 5%	Xi	10, 36

TLV values: see chapter 8.2.

3. Hazards identification of the preparation

Particular hazard record for humans and environment: Flammable; Repeated exposure may cause skin dryness or cracking

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.

Long term effects: Serious long-term effects regarding the present compounds are not available. Despite opposite scientific investigations we recommend, after ingestion, to seek medical examination of the lungs.

5. Fire-fighting measures

Extinguishing media: recommended: alcohol resistant foam, CO₂, powders, spay-mist (water)

Unsuitable media: water-jet

Recommendations: fire will produce dense black smoke. Inhalation of decomposition products may cause a health hazard.

Additional protection: when fire fighting breathing protection is compulsory.

Additional notice: sealed containers in the direct vicinity should be cooled with 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 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 between 5°C and 20°C in dry, well-ventilated areas, away from sources of heat and direct sunlight. Keep away from sources of ignition. Store in accordance with local regulations.

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 OEL values acc. TRGS 900:

CAS-number	Substance	Type	Value (ppm)	Value (mg/m ³)
1330-20-7	Xylene-isomer mixture	TLV	100 ppm	440 mg/m ³
123-86-4	Butyl acetate	TLV	100 ppm	480 mg/m ³
108-65-6	2-Methoxy-1-methylethylacetate	TLV	50 ppm	270 mg/m ³

8.3 Personal protection

Protective and hygiene measurements: All parts of the body should be washed after contact. Smoking, eating and drinking should be 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 or barrier crèmes acc. EN 374. Follow manufacturers' recommendations.

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

9. Physical and chemical properties

Physical state:	liquid	Colour: various colours and clear
Smell:	art typical, mild-aromatic	
Change of condition:	evaporation, thickening (open cans)	
Flash point (DIN 53213)	25°C	
Ignition temperature (DIN 51794)	> 240° C	
Fire supporting properties / Auto ignition:	yes / no	
Explosion hazard due to:	evaporation	
Explosion limits (vol.%)	l.e.l.: 1.% o.e.l.: 11 %	
Vapour pressure at 20° C:	< 110 k Pa (literature value)	
Density:	0.95 – 1,2 kg/litre (depends on colour)	
Solubility in water at 20°C:	insoluble (< 3%)	
Viscosity at 20°C, (DIN 53211/4 mm):	> 120 sec.	
Solvent content (wt. %):	ca. 37	
VOC (g/ltr):	ca. 420	

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 and oxides of nitrogen.

11. Toxicological information

General; there are no data available on the preparation itself; however the product is classified according conventional methods (assessment according Dangerous Preparations Directive 1999/45/EC). Please observe chapter 2, 8 and 15.

Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach. Ingestion may cause gastrointestinal irritation and diarrhoea.

Inhalation: Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nerve system. Narcotic in high concentrations. Inhalation of the spray mist may produce severe irritation of the respiratory tract, characterised by coughing, choking, or shortness of breath.

Skin contact: Harmful in contact with skin. Irritating to skin. Product may be dermal absorbed.

Skin inflammation is characterised by itching, scaling, reddening, or, occasionally, blistering.

Eye contact: Hazardous in case of eye contact (irritant). Inflammation of the eye is characterised by redness, watering and itching.

Other toxic effects: Alcohol consumption before or after exposure may increase adverse effects. Repeated or prolonged inhalation of vapours may lead to chronic respiratory irritation. Repeated or prolonged exposure to spray mist may cause respiratory tract irritation leading to frequent attacks of bronchial infection.

12. Ecological information

By formulation the preparation does not contain heavy metals and no compounds according EG-directive No. 76/464 EWG.

There are no data available on the preparation itself. Please refer to chapter 6, 10.3 and 15.

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

13. Disposal considerations

- Product:** We recommend using the product completely. Waste material should be disposed of (see local directions/regulations).
Not cured remainders are classified chemical waste and should be disposed accordingly.
Completely cured remainders (including cured product in brushes, rollers, filters, etc.) are classified as non chemical waste.
European Waste catalogue: 080111 or 080112
- Containers:** Empty containers entirely, do not solvent wash. Dry containers can easily be recycled as high quality scrap material.

14. Transport information**Land-freight; transport in accordance with ADR / RID:**

Class/Page: UN No. 1263 Description: paint
Remark: not regulated, not subject to ADR-Regulations in containers up to 450 ltr.

Sea-freight; transport in accordance with IMDG:

Class: 3 UN No. 1263 Description: paint
EMS-No.: 3-05 MFAG: F-E, S-E Marine pollutant: no Page: III
Remark: flammable; flashpoint > 23° C.

Air-freight; transport in accordance with ICAO-TI and IATA-DGR:

IACO-Class: 3 UN No. 1263 Description: paint
Remark: flammable; flashpoint > 23° C. Page: III

Label:

**15. Regulatory information**

Classification in accordance with EG directive 1999/45/EEC non-hazardous compound.

Symbol: **Hazard indication** **Hazardous components**
Xn not applicable



Harmful

- R/S/P-phrases:** Risk phrases: R10 Flammable.
R66 Repeated exposure may cause skin dryness or cracking.
Safety phrases: S2 Keep out of the reach of children.
S23 Do not breath spray (when applying by spray).
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S51 Use only in well-ventilated areas.

16. Other information

Explanation: P-phrases* (applicable phrases see chapter 15). *precautionary phrases

Only applicable for the use of iso-cyanate containing preparations.

P91 Contains Isocyanate – follow manufacturers instructions.

Activator and mixed (ready to use) coating materials may irritate skin and respiratory tract, sensitise and produce allergic reactions. Allow for adequate ventilation during and after use, do not breathe vapour, during fumigation/spraying wear suitable respiratory equipment. Allergic persons and persons subject to respiratory illness are not enlisted to work with these coating materials.

16.1 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/EEC, 88/379/EEC and 1999/45/EEC.