

1. IDENTIFICATION OF THE PREPARATION AND COMPANY**1.1. Product name and / ore code:**

Trade names: Branth's Kombi-thinner and Branth's Spezial-thinner

Intended use: Thinners for paint

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

BRANTH CHEMIE, A.V. BRANTH, HAMBURG – Tel. +49 40-36 97 40-0 Fax +49 40-36 71 48

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Name CAS-No. Conc. Symbol R-phrases

1-Methoxy-2-Propanol 107-98-2 20 - 30% n.a. R 10 inflammable

Butyl Acetate 123-98-4 30 - 50% n.a. R 10 inflammable

Hydrocarbons free of aromatics 64742-48-9 5 - 10% n.a. R 10 inflammable

3. HAZARDS IDENTIFICATION OF THE PREPARATION

No danger symbols R 10 flammable

4. FIRST AID MEASURES**General:** Vapours are heavier than air and may spread along floors.**Inhalation:** Remove to fresh air. If unconscious, place in recovery position and seek medical advice.**Eye contact:** Irrigate copiously with clean, fresh water for at least 10 minutes**Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleaner.Do **NOT** use solvents or thinners.**Ingestion:** Keep at rest. If accidentally swallowed obtain immediate medical attention. Do **NOT** induce vomiting.**5. FIRE-FIGHTING MEASURES****Recommended extinguishing media:** alcohol resistant foam, CO₂, powders, water spay**Not recommended:** water-jet**General recommendation:** Fire will produce dense black smoke. Do not inhale the black smoke**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal protection** Exclude sources of ignition and ventilate the area. Avoid breathing vapours.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental protection: Do not allow entering into drains or watercourses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.**6.3 Cleaning / collecting:** Contain and collect spillage with non-combustible absorbent materials.**7. HANDLING AND STORAGE****7.1 Handling:** Vapours may form explosive mixtures with air.

Do not smoke. Use with adequate ventilation.

Keep away from sources of heat, sparks and open flames.

Electrical equipment should be protected to the appropriate standard.

Take all measures against electrostatic discharges.

Comply with the local Health and Safety laws at work.

7.2 Storage: Always keep the product in original containers or in containers of the same material. Never use pressure to an empty original container. Keep away from oxidising agents, strong alkaline and strong acid materials. Keep away from sources of heat. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage.**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. If these are not sufficient to maintain concentrations of solvent vapour below OEL, suitable respiratory protection must be worn.

8.2 Exposure limits: T.L.V.Occupational exposure limit for: ppm mg/m³ ml/m³1-Methoxy-2 Propanol 100 ppm 500 mg/m³ 100 ml/m³Butyl Acetate 200 ppm 1000 mg/m³ 200 ml/m³Hydro Carbons (aromatic-free) 200 ppm 1000 mg/m³ 200 ml/m³**8.3 Personal protection****Respiratory protection:** At concentrations above the exposure limit appropriate certified respirators must be used.**Hand protection:** For prolonged or repeated contact use rubber or plastic gloves. Barrier cremes may help to protect the exposed areas of skin, however they are no substitute for gloves.**Eye protection:** Use safety eyewear designed to protect against splash of liquids.**Skin protection:** Personnel should wear anti-static clothing made of natural fibre or high temperature resistant synthetic fibre.

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9. PHYSICAL AND CHEMICAL PROPERTIES**Physical state:** liquid**Colour:** transparent**Smell:** mild**Change in condition:** evaporation**Flash point:** 28° C DIN 53213**Ignition temperature:** > 200° C DIN 51794**Auto ignition** no**Fire supporting properties:** yes**Explosive due:** evaporation**Explosion limits lower/high** l.e.l.: 0,5 vol.-% o.e.l.: 11 vol.-%**Vapour pressure at 20° C:** 10-15 mbar (literature value)**Density:** approx. 0.9**Solubility in water:** < 30% at 20°C**Viscosity:** 12-15 sec. at 20°C, DIN 53211/4 mm**Solvent content:** 100%**Solids content:** -**PH value:** -**10. STABILITY AND REACTIVITY**

Stable under recommended storage and handling conditions. (see section 7). When exposed to high temperatures it may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke oxides of nitrogen.

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

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself.

Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause 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

There are no data available on the preparation itself. It is not classified as "marine pollutant".

The product contains no lead or chromate or other heavy metals in any colour, it contains no substances in accordance with 76/464 EEC. The product contains no aromatic solvents (alike xylene).

13. DISPOSAL CONSIDERATIONS

Product: Do not allow into drains or watercourses.

Containers: Empty containers entirely. Dry containers can easily be recycled as high quality scrap material.

14. TRANSPORT INFORMATION

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

ADR/RID: Class: 3.31-c item: 2301 Transport document no. 30 Label: III

IMDG: Class: 3.3 UN no.: 1263 Proper shipping name: paint related material Label: III

Marine pollutant: no

EmS-No. 3-07 MFAG-No.: 310

ICAO/IATA: Class: 3.3 UN no.: 1263 Proper shipping name: paint related material Label: III

15. REGULATORY INFORMATION

In accordance with EC directives Symbol: R-phrases S-phrases

No symbol R 10 S 2, S 23, S 38, S 51

16. OTHER INFORMATION

R 10 = flammable

S 2 = Keep out of reach of children

S 23 = Do not inhale vapour / spray

S38 = In case of insufficient ventilation, wear suitable respiratory equipment

S 51 = Use only in well ventilated areas

The information of this Material Safety Data Sheet is based on the present state of our knowledge and on current EEC regulations. 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 in 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 and 88/379/EEC.

SPEZIAL THINNER
Differences with regard to Branth's Kombi-thinner:

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1. Product name and / ore code:

Trade names: Branth's Spezial-thinner

Intended use: Thinner for paint

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Name CAS-No. Conc. Symbol R-phrases

1-Methoxy-2-Propanol 107-98-2 30 - 35% n.a. R 10 inflammable

Hydrocarbons free of aromatics 64742-48-9 5 - 7% n.a. R 10 inflammable

3. HAZARDS IDENTIFICATION OF THE PREPARATION

No danger symbols

Particular hazard record for humans and environment: R 10 flammable

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquid

Colour: transparent

Smell: mild

Change in condition: evaporation

Flash point: 36° C DIN 53213

Ignition temperature: > 250° C DIN 51794

Auto ignition no

Fire supporting properties: yes

Explosive due: evaporation

Explosion limits lower/high l.e.l.: 0,5 vol.-% o.e.l.: 11 vol.-%

Vapour pressure at 20° C: 3 - 10 h Pa at 20°C (literature value)

Density: approx. 1

Solubility in water: > 75% at 20°C

Viscosity: 12-15 sec. at 20°C, DIN 53211/4 mm

Solvent content: 100%

Solids content: -

PH value: approx. 5