

430

Safety Data Sheet

acc. to OSHA HCS



Page 170
Printing date 09/26/2018
Reviewed on 09/26/2018

TB2012

1 Identification

- **Product identifier**
- **Trade name:** WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80
- **Article number:** 100000001389
- **Relevant identified uses of the substance or mixture and uses advised against**
Currently no such applications are identified.
- **Application of the substance / the mixture** dry erase whiteboard ink
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
DOKUMENTAL GmbH & Co KG
Woellnerstraße 26
D-67065 Ludwigshafen
Phone + 49 (0)621/37702 321
Fax + 49 (0)621/37702 391
www.dokumental.de
- **Information department:**
Technical Service, Dr. B. Polzin
Tel.: +49-621-37702 322
Mobile +49-1726204412
E-Mail: bernd.polzin@dokumental.de
- **Emergency telephone number:**
24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**

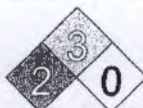


GHS02



GHS07

- **Signal word** Danger
- **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

(Contd. of page 1)

• **HMIS-ratings (scale 0 - 4)**

HEALTH	2
FIRE	3
REACTIVITY	0

Health = 2
Fire = 3
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- **Description:** Mixture of the substances listed below with nonhazardous additions.

• **Dangerous components:**

64-17-5	ethanol	50-100%
67-63-0	propan-2-ol	10-25%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
Most important symptoms and effects, both acute and delayed
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
- **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

• **PAC-1:**

64-17-5	ethanol	1,800 ppm
67-63-0	propan-2-ol	400 ppm

• **PAC-2:**

64-17-5	ethanol	3300* ppm
67-63-0	propan-2-ol	2000* ppm

(Contd. on page 3)

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 2)

• **PAC-3:**

64-17-5	ethanol	15000* ppm
67-63-0	propan-2-ol	12000** ppm

7 Handling and storage

• **Handling:**

• **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

• **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.

• **Conditions for safe storage, including any incompatibilities**

• **Storage:**

• **Requirements to be met by storerooms and receptacles:** Store in a cool location.

• **Information about storage in one common storage facility:** Not required.

• **Further information about storage conditions:**

Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

• **Storage class:** 3

• **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

• **Additional information about design of technical systems:** No further data; see item 7.

• **Control parameters**

• **Components with limit values that require monitoring at the workplace:**

64-17-5 ethanol (50-100%)

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

67-63-0 propan-2-ol (10-25%)

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm
BEI	

• **Ingredients with biological limit values:**

67-63-0 propan-2-ol (10-25%)

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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• **Additional information:** The lists that were valid during the creation were used as basis.

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

• **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

• **Material of gloves**

The selection of the suitable gloves depends on the product and the concentration of the substance.

Trade name: **WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80**

(Contd. of page 3)

substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:

Fluid

Color:

According to product specification

• **Odor:**

Product specific

• **Odor threshold:**

Not determined.

• **Important information on protection of health and environment, and on safety.**

-

• **pH-value:**

Not determined.

• **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

78 °C (172.4 °F)

• **Flash point:**

13 °C (55.4 °F)

• **Flammability (solid, gaseous):**

Not applicable.

• **Ignition temperature:**

425 °C (797 °F)

• **Decomposition temperature:**

Not determined.

• **Auto igniting:**

Product is not selfigniting.

• **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

• **Explosion limits:**

Lower:

2 Vol %

Upper:

15 Vol %

• **Vapor pressure at 20 °C (68 °F):**

59 hPa (44.3 mm Hg)

• **Density at 20 °C (68 °F):**

0.8 g/cm³ (6.7 lbs/gal)

• **Relative density**

Not determined.

• **Vapor density**

Not determined.

• **Evaporation rate**

Not determined.

• **Solubility in / Miscibility with**

Water:

Fully miscible.

• **Partition coefficient (n-octanol/water):**

Not determined.

• **Viscosity:**

Dynamic at 20 °C (68 °F):

10 mPas

Kinematic:

Not determined.

• **Solvent content:**

Organic solvents:

80.6 %

Solids content:

6.7 %

• **Other information**

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

10 Stability and reactivity

• **Reactivity** No further relevant information available.

• **Chemical stability**

• **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

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Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

(Contd. of page 4)

- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information




- | | |
|----------------------------------|------------|
| • UN-Number | |
| • DOT, ADR, IMDG, IATA | UN1263 |
| • UN proper shipping name | |
| • DOT | Paint |
| • ADR | 1263 Paint |
| • IMDG, IATA | PAINT |

(Contd. on page 6)

US

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 5)

• Transport hazard class(es)	
• DOT	
	
• Class	3 Flammable liquids
• Label	3
• ADR	
	
• Class	3 (F1) Flammable liquids
• Label	3
• IMDG, IATA	
	
• Class	3 Flammable liquids
• Label	3
• Packing group	
• DOT, ADR, IMDG, IATA	II
• Environmental hazards:	
• Marine pollutant:	No
• Special precautions for user	Warning: Flammable liquids
• Danger code (Kemler):	33
• EMS Number:	F-E, S-E
• Stowage Category	B
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
• DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
• ADR	
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• IMDG	
• Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• UN "Model Regulation":	UN 1263 PAINT, 3, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture	
• Sara	
• Section 355 (extremely hazardous substances):	None of the ingredient is listed.
• Section 313 (Specific toxic chemical listings):	None of the ingredients is listed.
• TSCA (Toxic Substances Control Act):	All ingredients are listed.
• Proposition 65	
• Chemicals known to cause cancer:	None of the ingredients is listed.

(Contd. on page 7)

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 6)

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

DSL/NDSL (Canada) All ingredients are listed

Carcinogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A3

67-63-0 propan-2-ol

A4

MAK (German Maximum Workplace Concentration)

64-17-5 ethanol

5

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02



GHS07

Signal word Danger

Hazard statements

Highly flammable liquid and vapor.

Causes serious eye irritation.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

Technical instructions (air):

Class	Share in %
NK	50-100

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 09/26/2018 / 12

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

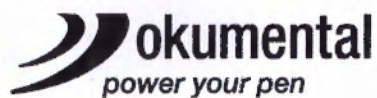
EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

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Trade name: NB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

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vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids - Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

US

1 Identification

- **Product identifier**
- **Trade name:** WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80
- **Article number:** 100000001389
- **Relevant identified uses of the substance or mixture and uses advised against**
Currently no such applications are identified.
- **Application of the substance / the mixture** dry erase whiteboard ink
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
DOKUMENTAL GmbH & Co KG
Woellnerstraße 26
D-67065 Ludwigshafen
Phone + 49 (0) 621/37702 321
Fax + 49 (0) 621/37702 391
www.dokumental.de
- **Information department:**
Technical Service, Dr. B. Polzin
Tel.: +49-621-37702 322
Mobile +49-1726204412
E-Mail: bernd.polzin@dokumental.de
- **Emergency telephone number:**
24-hour-Emergency+ Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger
- **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

• HMIS-ratings (scale 0 - 4)

(Contd. of page 1)

HEALTH	2
FIRE	3
REACTIVITY	0

Health = 2
Fire = 3
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- Description: Mixture of the substances listed below with nonhazardous additions.

• Dangerous components:

64-17-5	ethanol	50-100%
67-63-0	propan-2-ol	10-25%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
Most important symptoms and effects, both acute and delayed
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
- Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

• PAC-1:

64-17-5	ethanol	1,800 ppm
67-63-0	propan-2-ol	400 ppm

• PAC-2:

64-17-5	ethanol	3300* ppm
67-63-0	propan-2-ol	2000* ppm

(Contd. on page 3)

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

(Contd. of page 2)

• PAC-3:

64-17-5	ethanol
67-63-0	propan-2-ol

15000*	ppm
12000**	ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Storage class:** 3
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

• **Components with limit values that require monitoring at the workplace:**

64-17-5 ethanol (50-100%)

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

67-63-0 propan-2-ol (10-25%)

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI

• **Ingredients with biological limit values:**

67-63-0 propan-2-ol (10-25%)

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.
- **Material of gloves**

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 3)
substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

• **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:

Fluid

Color:

According to product specification

• **Odor:**

Product specific

• **Odor threshold:**

Not determined.

• **Important information on protection of health and environment, and on safety.**

-

• **pH-value:**

Not determined.

• **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

78 °C (172.4 °F)

• **Flash point:**

13 °C (55.4 °F)

• **Flammability (solid, gaseous):**

Not applicable.

• **Ignition temperature:**

425 °C (797 °F)

• **Decomposition temperature:**

Not determined.

• **Auto igniting:**

Product is not selfigniting.

• **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

• **Explosion limits:**

Lower:

2 Vol %

Upper:

15 Vol %

• **Vapor pressure at 20 °C (68 °F):**

59 hPa (44.3 mm Hg)

• **Density at 20 °C (68 °F):**

0.8 g/cm³ (6.7 lbs/gal)

• **Relative density**

Not determined.

• **Vapor density**

Not determined.

• **Evaporation rate**

Not determined.

• **Solubility in / Miscibility with**

Water:

Fully miscible.

• **Partition coefficient (n-octanol/water):**

Not determined.

• **Viscosity:**

Dynamic at 20 °C (68 °F):

10 mPas

Kinematic:

Not determined.

• **Solvent content:**

Organic solvents:

80.6 %

Solids content:

6.7 %

• **Other information**

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

10 Stability and reactivity

• **Reactivity** No further relevant information available.

• **Chemical stability**

• **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

(Contd. on page 5)

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

(Contd. of page 4)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information




- | | |
|----------------------------------|------------|
| • UN-Number | |
| • DOT, ADR, IMDG, IATA | UN1263 |
| • UN proper shipping name | |
| • DOT | Paint |
| • ADR | 1263 Paint |
| • IMDG, IATA | PAINT |

(Contd. on page 6)

US

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 5)

• Transport hazard class(es)	
• DOT	
	
• Class	3 Flammable liquids
• Label	3
• ADR	
	
• Class	3 (F1) Flammable liquids
• Label	3
• IMDG, IATA	
	
• Class	3 Flammable liquids
• Label	3
• Packing group	
• DOT, ADR, IMDG, IATA	II
• Environmental hazards:	
• Marine pollutant:	No
• Special precautions for user	Warning: Flammable liquids
• Danger code (Kemler):	33
• EMS Number:	F-E, S-E
• Stowage Category	B
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
• DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
• ADR	
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• IMDG	
• Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• UN "Model Regulation":	UN 1263 PAINT, 3, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture	
• Sara	
• Section 355 (extremely hazardous substances):	None of the ingredient is listed.
• Section 313 (Specific toxic chemical listings):	None of the ingredients is listed.
• TSCA (Toxic Substances Control Act):	All ingredients are listed.
• Proposition 65	
• Chemicals known to cause cancer:	None of the ingredients is listed.

(Contd. on page 7)

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

(Contd. of page 6)

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

DSL/NDSL (Canada) All ingredients are listed

Carcinogenicity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A3

67-63-0 propan-2-ol

A4

MAK (German Maximum Workplace Concentration)

64-17-5 ethanol

5

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02



GHS07

Signal word Danger

Hazard statements

Highly flammable liquid and vapor.

Causes serious eye irritation.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

Technical instructions (air):

Class	Share in %
NK	50-100

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 09/26/2018 / 12

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

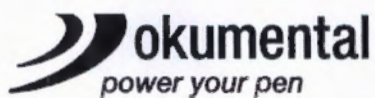
EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

Safety Data Sheet
acc. to OSHA HCS



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Reviewed on 09/26/2018

Trade name: NB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

(Contd. of page 7)

vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids - Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

US

1 Identification

- **Product identifier**
- **Trade name:** MB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80
- **Article number:** 100000001389
- **Relevant identified uses of the substance or mixture and uses advised against**
Currently no such applications are identified.
- **Application of the substance / the mixture** dry erase whiteboard ink
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
DOKUMENTAL GmbH & Co KG
Woellnerstraße 26
D-67065 Ludwigshafen
Phone + 49 (0) 621/37702 321
Fax + 49 (0) 621/37702 391
www.dokumental.de
- **Information department:**
Technical Service, Dr. B. Polzin
Tel.: +49-621-37702 322
Mobile +49-1726204412
E-Mail: bernd.polzin@dokumental.de
- **Emergency telephone number:**
24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger

- **Hazard statements**

Highly flammable liquid and vapor.
Causes serious eye irritation.

- **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

Trade name: NB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

• HMIS-ratings (scale 0 - 4)

(Contd. of page 1)

HEALTH	2
FIRE	3
REACTIVITY	0

Health = 2
Fire = 3
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- Description: Mixture of the substances listed below with nonhazardous additions.

• Dangerous components:

64-17-5	ethanol	50-100%
67-63-0	propan-2-ol	10-25%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
Most important symptoms and effects, both acute and delayed
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
- Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

• PAC-1:

64-17-5	ethanol	1,800 ppm
67-63-0	propan-2-ol	400 ppm

• PAC-2:

64-17-5	ethanol	3300* ppm
67-63-0	propan-2-ol	2000* ppm

(Contd. on page 3)

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 2)

PAC-3:

64-17-5	ethanol	15000* ppm
67-63-0	propan-2-ol	12000** ppm

7 Handling and storage

- Handling:**
- Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities**
- Storage:**
- Requirements to be met by storerooms and receptacles:** Store in a cool location.
- Information about storage in one common storage facility:** Not required.
- Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- Storage class:** 3
- Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems:** No further data; see item 7.
- Control parameters**

Components with limit values that require monitoring at the workplace:

64-17-5 ethanol (50-100%)

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

67-63-0 propan-2-ol (10-25%)

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm
	Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm
	Long-term value: 492 mg/m ³ , 200 ppm
	BEI

Ingredients with biological limit values:

67-63-0 propan-2-ol (10-25%)

BEI	40 mg/L
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Acetone (background, nonspecific)

- Additional information:** The lists that were valid during the creation were used as basis.

- Exposure controls**
- Personal protective equipment:**
- General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.
- Material of gloves**
The selection of the suitable material

Trade name: NB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 3)

substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

• **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:

Fluid

Color:

According to product specification

• **Odor:**

Product specific

• **Odor threshold:**

Not determined.

• **Important information on protection of health and environment, and on safety.**

-

• **pH-value:**

Not determined.

• **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

78 °C (172.4 °F)

• **Flash point:**

13 °C (55.4 °F)

• **Flammability (solid, gaseous):**

Not applicable.

• **Ignition temperature:**

425 °C (797 °F)

• **Decomposition temperature:**

Not determined.

• **Auto igniting:**

Product is not selfigniting.

• **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

• **Explosion limits:**

Lower:

2 Vol %

Upper:

15 Vol %

• **Vapor pressure at 20 °C (68 °F):**

59 hPa (44.3 mm Hg)

• **Density at 20 °C (68 °F):**

0.8 g/cm³ (6.7 lbs/gal)

• **Relative density**

Not determined.

• **Vapor density**

Not determined.

• **Evaporation rate**

Not determined.

• **Solubility in / Miscibility with**

Water:

Fully miscible.

• **Partition coefficient (n-octanol/water):**

Not determined.

• **Viscosity:**

Dynamic at 20 °C (68 °F):

10 mPas

Kinematic:

Not determined.

• **Solvent content:**

Organic solvents:

80.6 %

Solids content:

6.7 %

• **Other information**

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

10 Stability and reactivity

• **Reactivity** No further relevant information available.

• **Chemical stability**

• **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 4)

- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

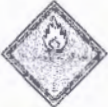

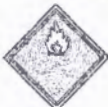
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|----------------------------------|------------|
| • UN-Number | |
| • DOT, ADR, IMDG, IATA | UN1263 |
| • UN proper shipping name | |
| • DOT | Paint |
| • ADR | 1263 Paint |
| • IMDG, IATA | PAINT |

(Contd. on page 6)

US

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

(Contd. of page 5)

• Transport hazard class(es)	
• DOT	
	
• Class	3 Flammable liquids
• Label	3
• ADR	
	
• Class	3 (F1) Flammable liquids
• Label	3
• IMDG, IATA	
	
• Class	3 Flammable liquids
• Label	3
• Packing group	
• DOT, ADR, IMDG, IATA	II
• Environmental hazards:	
• Marine pollutant:	No
• Special precautions for user	Warning: Flammable liquids
• Danger code (Kemler):	33
• EMS Number:	F-E, S-E
• Stowage Category	B
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
• DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
• ADR	
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• IMDG	
• Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• UN "Model Regulation":	UN 1263 PAINT, 3, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture	
• Sara	
• Section 355 (extremely hazardous substances):	None of the ingredient is listed.
• Section 313 (Specific toxic chemical listings):	None of the ingredients is listed.
• TSCA (Toxic Substances Control Act):	All ingredients are listed.
• Proposition 65	
• Chemicals known to cause cancer:	None of the ingredients is listed.

(Contd. on page 7)

Trade name: NB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 6)

- Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
- DSL/NDSL (Canada) All ingredients are listed
- Carcinogenity categories
- EPA (Environmental Protection Agency)
None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH)

64-17-5	ethanol	A3
67-63-0	propan-2-ol	A4
- MAK (German Maximum Workplace Concentration)

64-17-5	ethanol	5
---------	---------	---
- NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
- GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS02



GHS07

- Signal word Danger
- Hazard statements
Highly flammable liquid and vapor.
Causes serious eye irritation.
- Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- National regulations:
- Technical instructions (air):

Class	Share in %
NK	50-100
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision 09/26/2018 / 12
- Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)

Safety Data Sheet
acc. to OSHA HCS



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Printing date 09/26/2018
Reviewed on 09/26/2018

Trade name: NB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids - Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

(Contd. of page 7)

US

1 Identification

- **Product identifier**
- **Trade name:** WB 73xx.1 Series ; xx = 11 black, 11 black EN, 22 red, 24 red, 34 dark green, 34 dark green EN, 41 violet, 42 magenta, 62 orange, 63 yellow
- **Article number:** 100000001941
- **Relevant identified uses of the substance or mixture and uses advised against**
Currently no such applications are identified.
- **Application of the substance / the mixture** dry erase whiteboard ink
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
DOKUMENTAL GmbH & Co KG
Woellnerstraße 26
D-67065 Ludwigshafen
Phone + 49 (0) 621/37702 321
Fax + 49 (0) 621/37702 391
www.dokumental.de
- **Information department:**
Technical Service, Dr. B. Polzin
Tel.: +49-621-37702 322
Mobile +49-1726204412
E-Mail: bernd.polzin@dokumental.de
- **Emergency telephone number:**
24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger

- **Hazard statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.

- **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

US

Trade name: WB 73xx.1 Series ; xx = 11 black, 11 black EN, 22 red, 24 red, 34 dark green, 34 dark green EN, 41 violet, 42 magenta, 62 orange, 63 yellow

(Contd. of page 1)

- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

64-17-5	ethanol	50-100%
107-98-2	1-methoxy-2-propanol	10-25%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

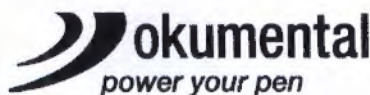
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
- Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS



Page 3/8

Printing date 02/21/2018
Reviewed on 02/21/2018

Trade name: WB 73xx.1 Series ; xx = 11 black, 11 black EN, 22 red, 24 red, 34 dark green, 34 dark green EN, 41 violet, 42 magenta, 62 orange, 63 yellow

(Contd. of page 2)

Protective Action Criteria for Chemicals

PAC-1:

64-17-5	ethanol	1,800 ppm
107-98-2	1-methoxy-2-propanol	100 ppm

PAC-2:

64-17-5	ethanol	3300* ppm
107-98-2	1-methoxy-2-propanol	160 ppm

PAC-3:

64-17-5	ethanol	15000* ppm
107-98-2	1-methoxy-2-propanol	660 ppm

7 Handling and storage

Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

Storage class: 3

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

64-17-5 ethanol (50-100%)

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

107-98-2 1-methoxy-2-propanol (10-25%)

REL	Short-term value: 540 mg/m ³ , 150 ppm
	Long-term value: 360 mg/m ³ , 100 ppm
TLV	Short-term value: 369 mg/m ³ , 100 ppm
	Long-term value: 184 mg/m ³ , 50 ppm

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of various substances, the selection of the suitable gloves should be based on the most demanding substance.

Trade name: WB 73xx.1 Series ; xx = 11 black, 11 black EN, 22 red, 24 red, 34 dark green, 34 dark green EN, 41 violet, 42 magenta, 62 orange, 63 yellow

to be checked prior to the application.

Nitrile rubber, NBR

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

(Contd. of page 3)

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:

Fluid

Color:

According to product specification

• **Odor:**

Product specific

• **Odor threshold:**

Not determined.

• **Important information on protection of health and environment, and on safety.**

-

• **pH-value:**

Not determined.

• **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

78 °C (172.4 °F)

• **Flash point:**

13 °C (55.4 °F)

• **Flammability (solid, gaseous):**

Not applicable.

• **Ignition temperature:**

287 °C (548.6 °F)

• **Decomposition temperature:**

Not determined.

• **Auto igniting:**

Product is not selfigniting.

• **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

• **Explosion limits:**

Lower:

1.7 Vol %

Upper:

15 Vol %

• **Vapor pressure at 20 °C (68 °F):**

59 hPa (44.3 mm Hg)

• **Density at 20 °C (68 °F):**

0.9 g/cm³ (7.5 lbs/gal)

• **Relative density**

Not determined.

• **Vapor density**

Not determined.

• **Evaporation rate**

Not determined.

• **Solubility in / Miscibility with**

Water:

Partly miscible.

• **Partition coefficient (n-octanol/water):**

Not determined.

• **Viscosity:**

Dynamic at 20 °C (68 °F):

9.5 mPas

Kinematic:

Not determined.

• **Solvent content:**

Organic solvents:

79.1 %

Solids content:

9.9 %

• **Other information**

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

10 Stability and reactivity

• **Reactivity** No further relevant information available.

• **Chemical stability**

• **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

(Contd. on page 5)

Trade name: WB 73xx.1 Series ; xx = 11 black, 11 black EN, 22 red, 24 red, 34 dark green, 34 dark green EN, 41 violet, 42 magenta, 62 orange, 63 yellow

(Contd. of page 4)

- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
 - on the skin: No irritant effect.
 - on the eye: Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.




14 Transport information

- | | |
|----------------------------------|------------|
| • UN-Number | |
| • DOT, ADR, IMDG, IATA | UN1263 |
| • UN proper shipping name | |
| • DOT | Paint |
| • ADR | 1263 Paint |
| • IMDG, IATA | PAINT |

(Contd. on page 6)
US

Trade name: NB 73xx.1 Series ; xx = 11 black, 11 black EN, 22 red, 24 red, 34 dark green, 34 dark green EN, 41 violet, 42 magenta, 62 orange, 63 yellow

(Contd. of page 5)

• Transport hazard class(es)	
• DOT	
	
• Class	3 Flammable liquids
• Label	3
• ADR	
	
• Class	3 (F1) Flammable liquids
• Label	3
• IMDG, IATA	
	
• Class	3 Flammable liquids
• Label	3
• Packing group	
• DOT, ADR, IMDG, IATA	II
• Environmental hazards:	
• Marine pollutant:	No
• Special precautions for user	Warning: Flammable liquids
• Danger code (Kemler):	33
• EMS Number:	F-E, S-E
• Stowage Category	B
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
• DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
• ADR	
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• IMDG	
• Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• UN "Model Regulation":	UN 1263 PAINT, 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

(Contd. on page 7)

US

Trade name: NB 73xx.1 Series ; xx = 11 black, 11 black EN, 22 red, 24 red, 34 dark green, 34 dark green EN, 41 violet, 42 magenta, 62 orange, 63 yellow

(Contd. of page 6)

- TSCA new (21st Century Act) (Substances not listed)
- Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

• DSL/NDSL (Canada) All ingredients are listed

• Cancerogenity categories

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A3

• MAK (German Maximum Workplace Concentration)

64-17-5 ethanol

5

• NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

• Hazard pictograms



GHS02



GHS07

• Signal word Danger

• Hazard statements

Highly flammable liquid and vapor.
Causes serious eye irritation.

• Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

• National regulations:

• Technical instructions (air):

Class	Share in %
NK	50-100

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Date of preparation / last revision 02/21/2018 / 19

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage

Safety Data Sheet
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Printing date 02/21/2018
Reviewed on 02/21/2018

Trade name: WB 73xx.1 Series ; xx = 11 black, 11 black EN, 22 red, 24 red, 34 dark green, 34 dark green EN, 41 violet, 42 magenta, 62 orange, 63 yellow

(Contd. of page 7)

IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 2: Flammable liquids - Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A
• *** Data compared to the previous version altered.**

US

1 Identification

- **Product identifier**
- **Trade name:** WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80
- **Article number:** 100000001389
- **Relevant identified uses of the substance or mixture and uses advised against**
Currently no such applications are identified.
- **Application of the substance / the mixture** dry erase whiteboard ink
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
DOKUMENTAL GmbH & Co KG
Woellnerstraße 26
D-67065 Ludwigshafen
Phone + 49 (0) 621/37702 321
Fax + 49 (0) 621/37702 391
www.dokumental.de
- **Information department:**
Technical Service, Dr. B. Polzin
Tel.: +49-621-37702 322
Mobile +49-1726204412
E-Mail: bernd.polzin@dokumental.de
- **Emergency telephone number:**
24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**

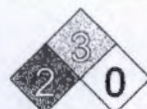


GHS02



GHS07

- **Signal word** Danger
- **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

• HMIS-ratings (scale 0 - 4)

(Contd. of page 1)

HEALTH	2
FIRE	3
REACTIVITY	0

Health = 2
Fire = 3
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- Description: Mixture of the substances listed below with nonhazardous additions.

• Dangerous components:

64-17-5	ethanol	50-100%
67-63-0	propan-2-ol	10-25%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
Most important symptoms and effects, both acute and delayed
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
- Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

• PAC-1:

64-17-5	ethanol	1,800 ppm
67-63-0	propan-2-ol	400 ppm

• PAC-2:

64-17-5	ethanol	3300* ppm
67-63-0	propan-2-ol	2000* ppm

(Contd. on page 3)

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 2)

PAC-3:

64-17-5	ethanol	15000* ppm
67-63-0	propan-2-ol	12000** ppm

7 Handling and storage

- Handling:**
- Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities**
- Storage:**
- Requirements to be met by storerooms and receptacles:** Store in a cool location.
- Information about storage in one common storage facility:** Not required.
- Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- Storage class:** 3
- Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems:** No further data; see item 7.
- Control parameters**

Components with limit values that require monitoring at the workplace:

64-17-5 ethanol (50-100%)

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

67-63-0 propan-2-ol (10-25%)

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm
BEI	

Ingredients with biological limit values:

67-63-0 propan-2-ol (10-25%)

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
-----	---

- Additional information:** The lists that were valid during the creation were used as basis.
- Exposure controls**
- Personal protective equipment:**
- General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.
- Material of gloves:**
The selection of the suitable material...

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

(Contd. of page 3)

substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

• **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:

Fluid

Color:

According to product specification

• **Odor:**

Product specific

• **Odor threshold:**

Not determined.

• **Important information on protection of health and environment, and on safety.**

-

• **pH-value:**

Not determined.

• **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

78 °C (172.4 °F)

• **Flash point:**

13 °C (55.4 °F)

• **Flammability (solid, gaseous):**

Not applicable.

• **Ignition temperature:**

425 °C (797 °F)

• **Decomposition temperature:**

Not determined.

• **Auto igniting:**

Product is not selfigniting.

• **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

• **Explosion limits:**

Lower:

2 Vol %

Upper:

15 Vol %

• **Vapor pressure at 20 °C (68 °F):**

59 hPa (44.3 mm Hg)

• **Density at 20 °C (68 °F):**

0.8 g/cm³ (6.7 lbs/gal)

• **Relative density**

Not determined.

• **Vapor density**

Not determined.

• **Evaporation rate**

Not determined.

• **Solubility in / Miscibility with**

Water:

Fully miscible.

• **Partition coefficient (n-octanol/water):**

Not determined.

• **Viscosity:**

Dynamic at 20 °C (68 °F):

10 mPas

Kinematic:

Not determined.

• **Solvent content:**

Organic solvents:

80.6 %

Solids content:

6.7 %

• **Other information**

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

10 Stability and reactivity

• **Reactivity** No further relevant information available.

• **Chemical stability**

• **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

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Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41, 50, 60, 61, 80

(Contd. of page 4)

- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information




- | | |
|----------------------------------|------------|
| • UN-Number | |
| • DOT, ADR, IMDG, IATA | UN1263 |
| • UN proper shipping name | |
| • DOT | Paint |
| • ADR | 1263 Paint |
| • IMDG, IATA | PAINT |

(Contd. on page 6)

US

Trade name: WB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

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• Transport hazard class(es)	
• DOT	
	
• Class	3 Flammable liquids
• Label	3
• ADR	
	
• Class	3 (F1) Flammable liquids
• Label	3
• IMDG, IATA	
	
• Class	3 Flammable liquids
• Label	3
• Packing group	
• DOT, ADR, IMDG, IATA	II
• Environmental hazards:	
• Marine pollutant:	No
• Special precautions for user	Warning: Flammable liquids
• Danger code (Kemler):	33
• EMS Number:	F-E, S-E
• Stowage Category	B
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
• DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
• ADR	
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• IMDG	
• Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• UN "Model Regulation":	UN 1263 PAINT, 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

• Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

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Trade name: NB 70xx Series; xx= 00, 02, 10, 20, 21, 30, 31, 32, 40, 41,50, 60, 61, 80

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• **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

• **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

• **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

• **DSL/NDSL (Canada) All ingredients are listed**

• **Carcinogenicity categories**

• **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

• **TLV (Threshold Limit Value established by ACGIH)**

64-17-5 ethanol

A3

67-63-0 propan-2-ol

A4

• **MAK (German Maximum Workplace Concentration)**

64-17-5 ethanol

5

• **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

• **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms**



GHS02



GHS07

• **Signal word Danger**

• **Hazard statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.

• **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• **National regulations:**

• **Technical instructions (air):**

Class	Share in %
NK	50-100

• **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Date of preparation / last revision** 09/26/2018 / 12

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

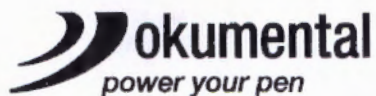
EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

Safety Data Sheet
acc. to OSHA HCS



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vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids - Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

US