

82314-1010

Safety data sheet

according to 1907/2006/EC, Article 31

Page 1/5 Printing date 19.06.2019 Revision: 19.06.2019 Version number 7

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- · 1.1 Product identifier
- Trade name: AP 85xx.2 NP/WNP; xx = 00 NP blue, 05 WNP blue, 10 NP black, 30 NP green, 35 WNP green, 36 WNP light green, 40 NP violet, 45 WNP violet, 90 NP gold, 91 NP copper, 92 NP red gold, 95 WNP gold
- Article number: 100000004531

- Registration number
 The ingredients of this product meet the criteria of the Regulation 1907/2006/EC (REACH).

 1.2 Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified.

 Application of the substance / the mixture water based pigmented marking ink
- 1.3 Details of the supplier of the safety data sheet

• 1.3 Details of the supplie.

• 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

· Further information obtainable from:

Technical Service & Product Safety Tel.: +49-621-37702 322 E-Mail: msds@dokumental.de

1.4 Emergency telephone number: GBK Gefahrgut BUro GmbH +49 (0) 6132 / 84463 Ingelheim, Deutschland

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms none
- · Signal word none · Hazard statements

- Hazard statements
 H412 Harmful to aquatic life with long lasting effects.

 Precautionary statements
 P273 Avoid release to the environment.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Additional information:
 - EUH208 Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
- · 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45	aluminium powder (stabilised) Tlam. Sol. 2, H228	2.5-10%
CAS: 95-38-5 EINECS: 204-414-9 Reg.nr.: 01-2119777867-13	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol \$\iff \text{STOT RE 2, H373; \$\iff \text{Skin Corr. Ic, H314; \$\iff \text{Aquatic Acute 1,}} \\ \text{H400; Aquatic Chronic 1, H410; \$\iff \text{Acute Tox. 4, H302}}	≤1 %
CAS: 55406-53-6 EINECS: 259-627-5 Reg.nr.: 01-2120762115-60	3-Iodo-2-propynylbutylcarbamate Acute Tox. 3, H331; ♠ STOT RE 1, H372; ♠ Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♠ Acute Tox. 4, H302; Skin Sens. 1, H317	≤ 1 §



Trade name: AP 85xx.2 NP/WNP; xx = 00 NP blue, 05 WNP blue, 10 NP black, 30 NP green, 35 WNP green, 36 WNP light green, 40 NP violet, 45 WNP violet, 90 NP gold, 91 NP copper, 92 NP red gold, 95 WNP gold

(Contd. of page 1)

Printing date 19.06.2019 Revision: 19.06.2019 Version number 7

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

SECTION 4: First aid measures

- 4.1 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.

 After swallowing: If symptoms persist consult doctor.
- A.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

- 6.1 Personal precautions, protective equipment and emergency procedures wear protective clothing.
 6.2 Environmental precautions:
 Inform respective authorities in case of seepage into water course or sewage system.
 Dilute with plenty of water.
 Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up:
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
 Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required. · Further information about storage conditions: None.
- Storage class:
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
 General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- 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

(Contd. on page 3)



Page 3/5 Printing date 19.06.2019 Revision: 19.06.2019 Version number 7

Trade name: AP 85xx.2 NP/WNP; xx = 00 NP blue, 05 WNP blue, 10 NP black, 30 NF green, 35 WNP green, 36 WNP light green, 40 NP violet, 45 WNP violet, 90 NP gold, 91 NP copper, 92 NP red gold, 95 WNP gold

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 preparation of several 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: Goggles recommended during refilling

Eye protection: Goggles recommended during refilling

Odour threshold: Important information on protection of health and environment, and on safety. pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flammability (solid, gas): Decomposition temperature: Auto-ignition temperature:	Fluid According to product specification Product specific Not determined. - 7.4-9.6 Undetermined. 100 °C Not applicable. Not applicable. Not determined. Product is not selfigniting. Not determined.
Form: Colour: Colour: Codour: Codour: Codour: Codour threshold: Important information on protection of health and environment, and on safety. pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flash point: Flammability (solid, gas): Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	According to product specification Product specific Not determined. - 7.4-9.6 Undetermined. 100 °C Not applicable. Not applicable. Not determined. Product is not selfigniting.
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Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flammability (solid, gas): Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	Undetermined. 100 °C Not applicable. Not applicable. Not determined. Product is not selfigniting.
Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flammability (solid, gas): Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	100 °C Not applicable. Not applicable. Not determined. Product is not selfigniting.
Initial boiling point and boiling range: Flash point: Flammability (solid, gas): Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	100 °C Not applicable. Not applicable. Not determined. Product is not selfigniting.
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Flammability (solid, gas): Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	Not applicable. Not determined. Product is not selfigniting.
Flammability (solid, gas): Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	Not applicable. Not determined. Product is not selfigniting.
Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	Not determined. Product is not selfigniting.
Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	Product is not selfigniting.
Explosive properties: Explosion limits: Lower:	
Explosion limits: Lower:	
Lower:	
	Not determined.
Opper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.2 g/cm³
Relative density	Not determined.
Vapour 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:	8-10 mPas
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	5.3 8
Water:	64.4 %
Solids content:	21.4 %
9.2 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.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

(Contd. on page



according to 1907/2006/EC, Article 31

Printing date 19.06.2019 Revision: 19.06.2019 Version number 7

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(Contd. of page 3)

- 10.2 Chemical stability
 Thermal decomposition / conditions to be avoided:
 No decomposition if used according to specifications.
 10.3 Possibility of hazardous reactions No dangerous reactions known.
 10.4 Conditions to avoid No further relevant information available.
 10.5 Incompatible materials: No further relevant information available.
 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met. Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
 Serious eye damage/irritation Based on available data, the classification criteria are not met.
 Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 Germ cell mutagenicity Based on available data, the classification criteria are not met.
 Carcinogenicity Based on available data, the classification criteria are not met.
 Reproductive toxicity Based on available data, the classification criteria are not met.
 STOT-single exposure Based on available data, the classification criteria are not met.
 STOT-repeated exposure Based on available data, the classification criteria are not met.
 Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
 12.2 Persistence and degradability No further relevant information available.
 12.3 Bioaccumulative potential No further relevant information available.
 12.4 Mobility in soil No further relevant information available.

- Ecotoxical effects: Remark: Harmful to fish
- Additional ecological information:
- General notes:

General notes:
Water hazard class 1 (German Regulation) (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.
Harmful to aquatic organisms
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.

PDFB: Not applicable

- Not applicable
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
 Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informati	on	
· 14.1 UN-Number		
· ADR, ADN, IMDG, IATA	not applicable	
· 14.2 UN proper shipping name		
· ADR, ADN, IMDG, IATA	not applicable	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	not applicable	
· 14.4 Packing group		
· ADR, IMDG, IATA	not applicable	
· 14.5 Environmental hazards:	Not applicable.	
		(Contd. on pa

Page 4 of 17



Page 5/5 Printing date 19.06.2019 Revision: 19.06.2019 Version number 7

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· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Anne	x II of	
Marpol and the IBC Code	Not applicable.	
· UN "Model Regulation":	not applicable	

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Technical instructions (air):

Class	Share	in	용
NK	S	ı	

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

SECTION 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.

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Relevant phrases
   Relevant phrases

H228 Flammable solid.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronwas:
H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

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

INDG: International Maritime Code for Dangerous Goods

IATA: International Maritime Code for Dangerous Goods

IATA: International Maritime Code subscitcion and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

EILINCS: European Inventory of Existing Commercial Chemical Substances

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

BBT: Persistent, Bioaccumulative and Toxic

vPVB: very Persistent and very Bioaccumulative

Flam. Sol. 2: Flammable solids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 3: Acute toxicity - Category 1

Skin Corr. IC: Skin corrosion/irritation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

STOTT RE 1: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3
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Page 1/7 Printing date 16.08.2016 Revision: 16.08.2016 Version number 23

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- · 1.1 Product identifier
- · Trade name: AP 8546.1 WNP pink
- Article number: 100000003963
- · Registration number
- Registration number
 The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)

 1.2 Relevant identified uses of the substance or mixture and uses advised against
 Currently no such applications are identified
 Application of the substance / the mixture water based pigmented marking ink
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: DOKUMENTAL GmbH & Co KG Woellnerstraße 26 D-67065 Ludwigshafen Phone + 49(0)621/5402321 Fax + 49(0)621/5402391
- www. dokumental.de · Further information obtainable from: Technical Service, Dr. B. Polzin Tel.: +49-621-5402322
- Tel.: +49-621-5402322
 Mobile +49-1726204412
 E-Mail: bernd.polzin@dokumental.de
 1.4 Emergency telephone number:
 GBK Gefahrgut Büro GmbH
 ++49 (0) 6132 / 84463
 Ingelheim, Deutschland

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
 The product is classified and labelled according to the CLP regulation.
- Hazard pictograms





- · Signal word Danger
- · Hazard-determining components of labelling:
- Xanthene-pigment

- mazard statements
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
Precautionary statements
P280 Wear protective gloves/protective gloves

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

international regulations.

· Additional information:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

(Contd. on page 2)

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Safety data sheet according to 1907/2006/EC, Article 31

Page 2/7 Printing date 16.08.2016 Revision: 16.08.2016 Version number 23

(Contd. of page 1)

Trade name: AP 8546.1 WNP pink

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

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Mixture of the following substances, containing non-hazardous substances and colouring agents.

 Description: Mixture of substances listed below with nonhazardous additions.

CAS: 7429-90-5	aluminium powder (stabilised)	2,5-10%
EINECS: 231-072-3	→ Flam. Sol. 2, H228	
CAS: 75627-12-2	Xanthene-pigment	2,5-10%
EINECS: 278-270-6	Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 107-21-1	ethanediol	2,5-10%
EINECS: 203-473-3	STOT RE 2, H373; Acute Tox. 4, H302	
CAS: 95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	≤1,0%
EINECS: 204-414-9		
CAS: 7664-41-7	ammonia, anhydrous	≤1,0%
EINECS: 231-635-3	♠ Flam. Liq. 3, H226; ♦ Acute Tox. 3, H331; ♦ Skin Corr. 1B, H314; Aquatic Acute 1, H400; Flam. Gas 2, H221; Press. Gas C, H280	
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one	≤1,0%
EINECS: 220-120-9	Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Ski Irrit. 2, H315; Skin Sens. 1, H317	n

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

SECTION 4: First aid measures

- 4.1 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. Then consult a doctor.

- After swallowing: If symptoms persist consult doctor.

 4.2 Most important symptoms and effects, both acute and delayed
 No further relevant information available.
 4.3 Indication of any immediate medical attention and special treatment needed
 No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- Suitable extinguishing agents:

 CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
 6.2 Environmental precautions:
 Inform respective authorities in case of seepage into water course or sewage system.
 Dilute with plenty of water.
 Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up:
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Ensure adequate ventilation.
- Ensure adequate Ventilation.
 6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.

(Contd. on page 3)



Page 3/7 Printing date 16.08.2016 Revision: 16.08.2016 Version number 23

(Contd. of page 2)

Trade name: AP 8546.1 WNP pink

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Storage class: 12
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace:

107-21-1 ethanediol (2,5-10%) IOELV Short-term value: 104 mg/m³, 40 ppm Long-term value: 52 mg/m³, 20 ppm Skin

7664-41-7 ammonia, anhydrous (≤1,0%)

Short-term value: 36 mg/m³, 50 ppm Long-term value: 14 mg/m³, 20 ppm IOELV

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Personal protective equipment:

General protective equipment:
General protective and hygienic measures:
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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

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

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.

to be observed.

Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance: Form:

Colour:

Odour: Odour threshold: Fluid

According to product specification

Product specific Not determined.

Important information on protection of health and

environment, and on safety.

· pH-value at 20 °C:

8,5

Change in condition Melting point/Melting range:

Undetermined.

(Contd. on page 4)



Printing date 16.08.2016 Revision: 16.08.2016 Version number 23

Trade name: AP 8546.1 WNP pink

	(Contd. of page
Boiling point/Boiling range:	100 °C
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	410 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure at 20 °C:	23 hPa
Density at 20 °C: Relative density Vapour density Evaporation rate	1,03 g/cm³ Not determined. Not determined. Not determined.
· Solubility in / Miscibility with water:	Partly miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity: Dynamic at 20 °C: Kinematic:	9 mPas Not determined.
· Solvent content: Organic solvents: Water:	0,8 % 72,4 %
Solids content: · 9.2 Other information	8,4 % 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.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.

- · 10.1 Reactivity No further relevant information available.

 10.2 Chemical stability

 Thermal decomposition / conditions to be avoided:

 No decomposition if used according to specifications.

 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.

 10.5 Incompatible materials: No further relevant information available.

 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
 · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
- Serious eye damage/irritation
 Causes serious eye damage.
 Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 Germ cell mutagenicity Based on available data, the classification criteria are not met.
 Carcinogenicity Based on available data, the classification criteria are not met.
 Reproductive toxicity Based on available data, the classification criteria are not met.
 STOT-single exposure Based on available data, the classification criteria are not met.
 STOT-repeated exposure Based on available data, the classification criteria are not met.
 Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.

(Contd. on page 5)



(Contd. of page 4)

Trade name: AP 8546.1 WNP pink

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available. · Ecotoxical effects:

- Remark: Toxic for fish
 Additional ecological information:

Additional ecological information:
 General notes:
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms
 12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.
 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
 Recommendation: Disposal must be made according to official regulations.
 Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
· 14.1 UN-Number · ADR, IMDG, IATA	UN3082
· 14.2 UN proper shipping name · ADR · IMDG	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Xanthene-pigment) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
· IATA	(Xanthene-pigment), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Xanthene-pigment)
· 14.3 Transport hazard class(es)	
· ADR	
· Class	9 (M6) Miscellaneous dangerous substances and articles.
· Label	9
· Class	9 Miscellaneous dangerous substances and articles
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Xanthene-pigment
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
· Danger code (Kemler):	90
· EMS Number:	F-A,S-F Alkalis
· Segregation groups	Alkalis

Page 10 of 17 Item Numbers: 82314-1010



Printing date 16.08.2016 Revision: 16.08.2016 Version number 23

Trade name: AP 8546.1 WNP pink

Stowage Category	A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 F
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: El Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (XANTHENE-PIGMENT), 9, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU

- Directive 2012/18/80

 Named dangerous substances ANNEX I ammonia, anhydrous

 Seveso category E2 Hazardous to the Aquatic Environment

 Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

 Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:
- · Technical instructions (air):

Class	Share	in	8
NK	<1	. 0	

- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

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Relevant phrases
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H221 Flammable gas. H226 Flammable liquid and vapour. H228 Flammable solid.

H228 Flammable solid.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
Abbreviations and acronyms:

H410 Very toxic to aquatic life with long lasting effects.

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)

INDG: International Maritime Code for Dangerous Goods

IATA: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

RIS: Globally Hammonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemica

EU .

Page 11 of 17



Page 7/7
Printing date 16.08.2016
Revision: 16.08.2016
Version number 23

(Contd. of page 6)

Trade name: AP 8546.1 WNP pink

Bye Dam. 1: Serious eye damage/eye irritation - Category 1
Skin Sens. 1: Skin sensitisation - Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2
* Data compared to the previous version altered.

Item Numbers: 82314-1010 Page 12 of 17



Printing date 10.08.2018 Revision: 10.08.2018 Version number 2

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- · 1.1 Product identifier
- Trade name: AP 85xx.2 NP/WNP; xx = 25 NP red, 80 silver, 96 WNP copper
- · Article number: 100000004538
- · Registration number

Safety data sheet

- The ingredients of this ink meet the criteria of the Regulation 1907/2006/EC (REACH).

 1.2 Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified.

 Application of the substance / the mixture water based pigmented marking ink
- · 1.3 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

· Further information obtainable from:

Technical Service, Dr. B. Polzin
Tel.: +49-621-37702 322
Mobile +49-1726204412
E-Mail: bernd.polzin@dokumental.de

1.4 Emergency telephone number: GBK Gefahrgut Büro GmbH +49 (0) 6132 / 84463 Ingelheim, Deutschland

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms none
- · Signal word none · Hazard statements

Hazard statements
 Hazard statements
 Hall Harmful to aquatic life with long lasting effects.
 Precautionary statements
 P273 Avoid release to the environment.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Additional information: EUH208 Contains 1.2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45	aluminium powder (stabilised) Flam. Sol. 2, H228	2.5-10%
CAS: 95-38-5 EINECS: 204-414-9 Reg.nr.: 01-2119777867-13	2-(2-heptadec-8-eny1-2-imidazolin-1-y1)ethanol ★ STÖT RE 2, H373; ★ Skin Corr. IC, H314; ★ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ★ Acute Tox. 4, H302	≤1 %
CAC. 2634-33-5	1,2-benzisothiazol-3(2H)-one ♠ Acute Tox. 1, H330; ♠ Eye Dam. 1, H318; ♠ Aquatic Acute 1, H400; Aquatic Control 2, H411; ♠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	≤1 %

Page 13 of 17 Item Numbers: 82314-1010



Page 2/5 Printing date 10.08.2018 Revision: 10.08.2018 Version number 2

Trade name: AP 85xx.2 NP/WNP; xx = 25 NP red, 80 silver, 96 WNP copper

CAS: 55406-53-6 EINECS: 259-627-5	3-Iodo-2-propynylbutylcarbamate Acute Tox. 3, H331; ♦ STOT RE 1, H372; ♦ Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♠ Acute Tox. 4, H302; Skin Sens. 1, H317	≤1 %
	bronopol (INN) ➡ Eye Dam. I, H318; ➡ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ➡ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	≤1 %

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- 4.1 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.
 After swallowing: If symptoms persist consult doctor.

- Aller swallowing: If symptoms persist consult doctor.

 4.2 Most important symptoms and effects, both acute and delayed

 No further relevant information available.

 4.3 Indication of any immediate medical attention and special treatment needed

 No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

 5.2 Special hazards arising from the substance or mixture No further relevant information available.

 5.3 Advice for firefighters
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

- 6.1 Personal precautions, protective equipment and emergency procedures wear protective crothing.
 6.2 Environmental precautions:
 Inform respective authorities in case of seepage into water course or sewage system.
 Dilute with plenty of water.
 Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up:
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

See Section 8 for disposal information.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None. Storage class: 12
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.



according to 1907/2006/EC, Article 31

Printing date 10.08.2018 Revision: 10.08.2018 Version number 2

(Contd. of page 2)

Trade name: AP 85xx.2 NP/WNP; xx = 25 NP red, 80 silver, 96 WNP copper

· 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.

Algrer 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 preparation of several 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

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

• Eye protection: Goggles recommended during refilling

	9.1 Information on basic physical and chemical p	properties
	General Information Appearance:	
	Form:	Fluid
	Colour:	According to product specification
	Odour:	Product specific
	Odour threshold:	Not determined.
	Important information on protection of health an	nd .
	environment, and on safety.	
	pH-value at 20 °C:	6.9-9.5
	Change in condition	
	Melting point/freezing point:	Undetermined.
	Initial boiling point and boiling range:	100 °C
_	Flash point:	Not applicable.
	Flammability (solid, gas):	Not applicable.
	Decomposition temperature:	Not determined.
	Auto-ignition temperature:	Product is not selfigniting.
	Explosive properties:	Not determined.
	Explosion limits:	
	Lower:	Not determined.
	Upper:	Not determined.
	Vapour pressure at 20 °C:	23 hPa
	Density at 20 °C:	1.1 g/cm³
	Relative density	Not determined.
	Vapour density	Not determined.
_	Evaporation rate	Not determined.
	Solubility in / Miscibility with water:	Fully miscible.
_		Not determined.
_	Partition coefficient: n-octanol/water:	NOC decermined.
	Viscosity: Dynamic at 20 °C:	8 mPas
	Kinematic:	Not determined.
	Solvent content:	
	Organic solvents:	0.8 %
	Water:	64.2 %
	Solids content:	12.3 %
	9.2 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 t mixture. These data are no binding product

(Contd. on page 4)



Page 4/5 Printing date 10.08.2018 Revision: 10.08.2018 Version number 2

Trade name: AP 85xx.2 NP/WNP; xx = 25 NP red, 80 silver, 96 WNP copper

(Contd. of page 3)

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.

- 10.1 Reactivity No further relevant information available.
 10.2 Chemical stability
 Thermal decomposition / conditions to be avoided:
 No decomposition if used according to specifications.
 10.3 Possibility of hazardous reactions No dangerous reactions known.
 10.4 Conditions to avoid No further relevant information available.
 10.5 Incompatible materials: No further relevant information available.
 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met. Primary irritant effect:

- Primary irritant effect:
 Skin corrosion/irritation Based on available data, the classification criteria are not met.
 Serious eye damage/irritation Based on available data, the classification criteria are not met.
 Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 Germ cell mutagenicity Based on available data, the classification criteria are not met.
 Carcinogenicity Based on available data, the classification criteria are not met.
 STOT-single exposure Based on available data, the classification criteria are not met.

- STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.

 12.3 Bioaccumulative potential No further relevant information available.

 12.4 Mobility in soil No further relevant information available.

- Ecotoxical effects: Remark: Harmful to fish
- Additional ecological information:

Additional ecological amount of the following state of the following

- · PBT: Not applicable. · vPvB: Not applicable
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
 Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN-Number		
· ADR, ADN, IMDG, IATA	not applicable	
· 14.2 UN proper shipping name		
· ADR, ADN, IMDG, IATA	not applicable	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
Class	not applicable	
· 14.4 Packing group		
· ADR, IMDG, IATA	not applicable	



according to 1907/2006/EC, Article 31

Page 5/5 Printing date 10.08.2018 Revision: 10.08.2018 Version number 2

Trade name: AP 85xx.2 NP/WNP; xx = 25 NP red, 80 silver, 96 WNP copper

	(Contd. of page
Not applicable.	
Not applicable.	
x II of	
Not applicable.	
not applicable	
	Not applicable. x II of Not applicable.

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed. · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Technical instructions (air):

Class	Share in 8
NK	≤1

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water. · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

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Relevant phrases
           H228 Flammable solid.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
             H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
     H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
Abbreviations and acronyms:

ARR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
INDS: International Maritime Code for Dangerous Goods
INTA: International Maritime Code for Dangerous Goods
INTA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
ELINECS: European Inventory of Existing Commercial Chemical Substances
ELINECS: European Inventory of Existing Commercial Chemical Substances
ELINES: European Inventory of Existing Commercial Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic

EVPUS: very Persistent and very Bioaccumulative
Flam. Sol. 2: Flammable solids - Category 2
Acute Tox. 4: Acute toxicity - Category 1
Acute Tox. 3: Acute toxicity - Category 1
Acute Tox. 3: Acute toxicity - Category 1
Skin Cert. 1C: Skin corrosion/irritation - Category 1
Skin Sens. 1: Skin sensitisation - Category 1
Skin Resis Specific target organ toxicity (repeated exposure) - Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Long-term aquatic hazard - Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - Long-term aquatic hazard - Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Long-term aquatic hazard - Category 3
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Page 17 of 17 Item Numbers: 82314-1010