



Color Ink WK

SAFETY DATA SHEET

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

- 1.1. Product identifier: COLOR INK WK
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Printing ink.
ERC: 11a, 2, 5, 8c
PROC: 19, 2, 3, 5, 8a, 8b, 9
PC: 18
- 1.3. Details of the supplier of the safety data sheet: Ichemco srl
via 11 Settembre, 5
20012 Cuggiono (MI)
Italy
- Email address of the competent person: safety@ichemco.it
- 1.4. Emergency telephone number: 24hrs, UK: 844 892 0111; EU: +32 3 575 55 55
- Further information obtainable from: Product safety department

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with Regulation (EC) No. 1272/2008 (CLP)

No prescription.

2.2. Label elements

- Signal word: none
- Hazard statements: EUH208 Contains 1,2-benzisothiazolinone;5-chloro-2-methyl-2H-isothiazol-3-one [247-500-7] and 2-methyl-2H-isothiazol-3-one [220-239-6], mixture 3:1. May produce an allergic reaction.
EUH210 Safety data sheet available on request.
- Contains: Ethanolamine - 5-chloro-2-methyl-2H-isothiazol-3-one [247-500-7] and 2-methyl-2H-isothiazol-3-one [220-239-6], mixture 3:1 - Ammonia - 1,2-benzisothiazolinone

- 2.3. Other hazards: On the basis of available data, the product does not contain PBT or vPvB substances in quantities > = 0.1%.
The product does not contain substances having properties of interference with the endocrine system in a concentration > = 0.1%.

SECTION 3: Composition/information on ingredients

3.1. Substances

n. a.

3.2. Mixtures

Substances presenting a health or environmental hazard within the meaning of directives 67/548/EEC, 1999/45/EC and 1272/2008 (CLP):

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20012 Cuggiono (MI) - ITALY

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CAS	EINECS	Registration n.	Denomination	Content	Classification(*)
1336-21-6	215-647-6	01-2119488876-14	Ammonia	0.3 - 0.35%	Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Corr. 1B; H314 STOT SE 3; H335
141-43-5	205-483-3	01-2119486455-28	Ethanolamine	Aqua Ac M=1 < 0.05% ATE Oral: 500 mg/kg ATE Dermal: 1100 mg/kg ATE Inhalation, gas: 4500 ppm ATE Inhalation, fog/powder: 1,5 mg/l ATE Inhalation, vapors: 1,1 mg/l	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Eye Dam. 1; H318 Skin Corr. 1B; H314 STOT SE 3; H335
2634-33-5	220-120-9		1,2-benzisothiazolinone	< 0.05% M acute = 1 M chronic = 1 Skin Sens. 1; H317: C≥0,036 %	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317
55965-84-9	611-341-5		5-chloro-2-methyl-2H-isothiazol-3-one [247-500-7] and 2-methyl-2H-isothiazol-3-one [220-239-6], mixture 3:1	< 0.0015% M (Aquatic Acute): 100 M (Aquatic Chronic): 100 C >= 0,6%: Skin Corr. 1C H314 0,06% <= C < 0.6%: Skin Irrit. 2 H315 C >= 0,6%: Eye Dam. 1 H318 0,06% <= C < 0.6%: Eye Irrit. 2 H319 C >= 0,0015%: Skin Sens. 1A H317 ATE Acute Oral Tox: 64 mg/kg ATE Acute Inh Tox: 0,33 mg/l ATE Acute Skin Tox: 87,12 mg/kg	Acute Tox. 2; H310 Acute Tox. 2; H330 Acute Tox. 3; H301 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318 Skin Corr. 1B; H314 Skin Sens. 1; H317

(*) For full text of the H- and EUH-phrases, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures: No damage to the staff assigned to the use of the product is reported. However we encourage to apply the general safety measures here indicated.

Inhalation: Move affected person to fresh air. Seek medical advise.

Eye contact: Flush immediately with large amounts of water for at least 15 minutes. Seek medical treatment.

Skin contact: Wash immediately with large amounts of water. Remove contaminated clothing. If irritation persists, seek medical advice.

Ingestion: Consult physician or poison control center immediately. Do not induce vomiting if not asked by the physician. Do not give anything orally without medical authorization if subject is unconscious.

4.2. Most important symptoms and effects, both acute and delayed: n. a.

4.3. Indication of any immediate medical attention and special treatment needed: n. a.

SECTION 5: Firefighting measures

5.1. Extinguishing media: Water mist, dry chemical powder, foam, carbon dioxide (CO₂).

Extinguishing media which must not be used: n. a.

5.2. Special hazards arising from the substance or mixture: n. a.

5.3. Advice for firefighters: A self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after the fire is out.

Recommendations: The contaminated water used for the extinguishing must be eliminated in compliance with the local legislative dispositions.

SECTION 6: Accidental release measures

Stop the spillage. Circumscribe the loss and remove it by absorbing on dry sand or other inert materials.

6.1. Personal precautions, protective equipment and emergency procedures: Equip cleanup crew with proper protection. Ventilate area. Evacuate unnecessary personnel.

6.2. Environmental precautions: Prevent spillage of the material into sewers, groundwater and surface waters.

6.3. Methods and material for containment and cleaning up: Stop the outpouring, if possible without hazard. Circumscribe the loss and remove it by absorbing on dry sand or other inert materials.

6.4. Reference to other sections: Please also refer to Sections 8 and 13.

SECTION 7: Handling and storage

This product must be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

7.1. Precautions for safe handling: Avoid eye contact and vapour breathing. Use appropriate gloves.

Advice on general occupational hygiene: (a) not to eat, drink and smoke in work areas;
(b) to wash hands after use; and
(c) to remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities: Protect from freeze.

7.3. Specific end use(s): Nothing special to note about specific uses.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

Substance:	TLW-TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Ethanolamine	1	2,5	3	7,6
5-chloro-2-methyl-2H-isothiazol-3-one [247-500-7] and 2-methyl-2H-isothiazol-3-one [220-239-6], mixture 3:1		15		45
Ammonia		35		

1,2-benzisothiazolinone: DNEL

Long term systemic effects, people, dermal = 0,345 mg/kg (repeated dose toxicity);
inhalation = 1,2 mg/m³ (repeated dose toxicity);

Long term systemic effects, lavoratori, dermal = 0,966 mg/kg (repeated dose toxicity); inhalation= 6,81 mg/m³ (repeated dose toxicity);

PNEC

Sediment seawater = 4,99 µg/kg; sediment soft water = 4,99 µg/kg; seawater = 0,403 µg/l; soft water= 4,03 µg/l; soil= 3 mg/kg; waste water treatment plant= 1,03 mg/l

Ammonia: OEL (EU) TWA/8h = 14 mg/m³; 20 ppm - STEL/15 min = 36 mg/m³; 50 ppm
DNEL

Exposure: oral, acute systemic effects on workers = 6.8 mg/kg

Exposure: inhalation, effects on workers, acute local = 36 mg/m³; acute systemic: 476 mg/m³; chronic local=14 mg/m³; chronic systemic = 47.6 mg/m³

Exposure: dermal, effects on workers, acute systemic=6.8 mg/kg; chronic systemic = 6.8 mg/kg

PNEC

Soft water = 0.0011 mg/kg

Sea water = 0.011 mg/kg

Ethanolamine: TLV (BGR) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,6 mg/m³; 3 ppm
TLV (CZE) - TWA/8h = 2,5 mg/m³; 0,985 ppm - STEL/15min = 7,5 mg/m³; 2,955 ppm
AGW (DEU) - TWA/8h = 0,5 mg/m³; 0,2 ppm - STEL/15min = 0,5 mg/m³; 0,2 ppm - pelle
MAK (DEU) - TWA/8h = 0,51 mg/m³; 0,2 ppm - STEL/15min = 0,51 mg/m³; 0,2 ppm
VLA (ESP) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,5 mg/m³; 3 ppm - pelle
VLEP (FRA) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,6 mg/m³; 3 ppm - pelle
TLV (GRC) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,6 mg/m³; 3 ppm
GVI/KGVI (HRV) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,6 mg/m³; 3 ppm - pelle
VLEP (ITA) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,6 mg/m³; 3 ppm - pelle
TGG (NLD) - TWA/8h = 2,5 mg/m³ - STEL/15min = 7,6 mg/m³ - pelle
VLE (PRT) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,6 mg/m³; 3 ppm - pelle
NDS/NDSch (POL) - TWA/8h = 2,5 mg/m³ - STEL/15min = 7,5 mg/m³ - pelle
NGV/KGV (SWE) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,5 mg/m³; 3 ppm - pelle
MV (SVN) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,6 mg/m³; 3 ppm - pelle
WEL (GBR) - TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,6 mg/m³; 3 ppm - pelle
OEL (EU) TWA/8h = 2,5 mg/m³; 1 ppm - STEL/15min = 7,6 mg/m³; 3 ppm - pelle

8.2. Exposure controls: n. a.

Appropriate engineering controls: n. a.

Eye / face protection: Glasses with side protection ("cage" glasses) (EN166).

Hand protection: PVC or neoprene gloves.

Skin protection: Use full protective clothing for chemicals (working-dress, apron).
Protective shoes.

Respiratory protection: Store in a cool, well ventilated area.

Thermal hazards: n. a.

Environmental exposure controls: n. a.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

(a) Appearance: Coloured liquid.

(a) Physical state: Liquid.

(b) Colour: n. a.

(c) Odour: Characteristic.

(c) Odour threshold: n.a.

(d) Melting point: < 5 °C

Freezing point: n.a.

(e) Boiling point or initial boiling point and boiling range: > 90 °C

(f) Flammability: n.a.

(g) Lower and upper explosion limit: n.a.

(h) Flash point: > 61 °C

(i) Auto-ignition temperature: n.a.

(j) Decomposition temperature: n.a.

(k) pH: 8.5 - 9.2

(l) Kinematic viscosity: n.a.

(m) Solubility: n.a.

(n) Partition coefficient n-octanol/water (log value): n.a.

(o) Vapour pressure: n.a.

(p) Density and/or relative density: 0.9 - 1.3 g/cm³

(q) Relative vapour density: n.a.

(r) Particle characteristics: n.a.

COV: 0.8 (Dir 2010/75/CE) %

9.2. Other information: n. a.

SECTION 10: Stability and reactivity

No decomposition if correctly used.

10.1. Reactivity: There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability: The material is stable in normal use and stocking conditions.

10.3. Possibility of hazardous reactions: Keep away from oxidants and strong acids.

10.4. Conditions to avoid: Low temperatures (protect from freezing).

10.5. Incompatible materials: n. a.

10.6. Hazardous decomposition products: Combustion can produce carbon oxides, toxic gases and fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects: In the absence of experimental toxicological data on the mixture, the potential health risks of the product have been evaluated considering the properties of the different composing substances. The concentration of each dangerous substance mentioned in section 3 is thus considered in assessing the toxicological effects resulting from exposure to the product.

acute toxicity: **5-chloro-2-methyl-2H-isothiazol-3-one [247-500-7] and 2-methyl-2H-isothiazol-3-one [220-239-6], mixture 3:1**

LD50 /oral/rat: 64 mg/kg

LD50/dermal/rabbit: 87,12 mg/kg

LC50/inhalation/rat/4h: 0,17 mg/l

1,2-benzisothiazolinone

LD50/oral/rat: 490 mg/kg

LD50/dermal/rat > 2000 mg/kg

irritation: n. a.

corrosivity: n. a.

sensitisation: n. a.

repeated dose toxicity: n. a.

carcinogenicity: n. a.

mutagenicity: n. a.

toxicity for reproduction: n. a.

Information on likely routes of exposure: n. a.

Symptoms related to the physical, chemical and toxicological characteristics: n. a.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: n. a.

Interactive effects: n. a.

11.2. Information on other hazards: The product does not contain substances having properties of interference with the endocrine system in a concentration > = 0.1%.

SECTION 12: Ecological information

Prevent contamination of soil and surface waters. Avoid dispersion of material into soil, drains or surface waters. Avoid dispersion of residues into drains.

12.1. Toxicity: 5-chloro-2-methyl-2H-isothiazol-3-one [247-500-7] and 2-methyl-2H-isothiazol-3-one [220-239-6], mixture 3:1

CL50/ Oncorhynchus mykiss/96 h: 0,19 mg/l -OECD 203
 CL50/ Daphnia magna/48 h: 0,16 mg/l - OECD 202
 NOEC/Skeletonema costatum/Static/48 h: 0,00049 mg/l - OECD 201
 NOEC/Pseudokirchneriella subcapitata/72h: 0.0012 mg/l - OECD201
 M factor (Acute tox)=100
 EC10/microorganisms/3h: 7.92 mg/l-OECD209
 CE50r/ Skeletonema costatum/Static/48 h: 0,0052 mg/l - OECD 201
 NOEC/Oncorhynchus mykiss/28 d: 0,098mg/l - OECD 210
 NOEC/Daphnia magna: 0,004 mg/l - OECD211
 M factor (Chronic tox): 100

Ammonia

LC50/fish(Channa punctata) = 47 mg/l/96h
 EC50/Crostateous (Daphnia magna) = 20 mg/l/48h

1,2-benzisothiazolinone

LC50/Oncorhynchus mykiss/96h: 2.18 mg/l
 EC50/Daphnia magna/48h: 2.94 mg/l
 EC50r/Pseudokirchneriella subcapitata/72h:0.11 mg/l
 NOEC/Skeletonema costatum/72h: 0.027 mg/l
 M factor (acute tox) = 1

12.2. Persistence and degradability: 5-chloro-2-methyl-2H-isothiazol-3-one [247-500-7] and 2-methyl-2H-isothiazol-3-one [220-239-6], mixture 3:1

Biodegradation < 50%/10d

1,2-benzisothiazolinone

Quickly biodegradable

12.3. Bioaccumulative potential: 5-chloro-2-methyl-2H-isothiazol-3-one [247-500-7] and 2-methyl-2H-isothiazol-3-one [220-239-6], mixture 3:1

Log Pow: -0.71-0.75 (OECD107)

1,2-benzisothiazolinone

Log Pow: 0.7 (20°C)

12.4. Mobility in soil: n. a.

12.5. Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances in quantity higher than 0.1%.

12.6. Endocrine disrupting properties: The product does not contain substances having properties of interference with the endocrine system in a concentration > = 0.1%.

12.7. Other adverse effects: The product does not contain substances listed in Regulation (EC) 1005/2009 (substances that deplete the ozone layer)

SECTION 13: Disposal considerations

13.1. Waste treatment methods: This material should be incinerated in authorized plants or under controlled conditions. Proceed in conformity with local and national regulation.

SECTION 14: Transport information

This preparation is not classified dangerous according to the international transport regulations.

Land transport: Not classified as dangerous under ADR, RID, USDOT, IMO

Sea transport: Not classified as dangerous under IMDG

Air transport: Not classified as dangerous under IATA/ICAO

SECTION 15: Regulatory information

Information contained in this SDS is based on the present state of our knowledge and on Regulation (EC) No 1907/2006 of the European Parliament and subsequent updates.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:	Restrictions related to the product or substances contained according to Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent amendments: Restrictions related to the product: 3, 75
15.2. Chemical safety assessment:	Not applicable

SECTION 16: Other information

This document was written by a trained technician.

Modified sections: 1,2,3,8,9,11,12,15,16

PROTECT FROM FREEZING. STORE IN A DRY LOCATION BETWEEN 5 AND 30°C. AVOID DIRECT SUNLIGHT.

STIR ACCURATELY BEFORE USE

Full text of H phrases listed in Section 3:

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

Glossary / List of acronyms

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

DNEL - Derived No Effect Level

ECHA - European Chemicals Agency

EINECS - European Inventory of Existing Commercial Substances

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

Kow - octanol-water partition coefficient

PBT - Persistent, Bioaccumulative and Toxic substance

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety data sheet

STOT - Specific Target Organ Toxicity

SVHC - Substances of Very High Concern

UFI - Unique Formula Identifier

vPvB - Very Persistent and Very Bioaccumulative

Users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

The information in this Safety Data Sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) regulations.