

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Name .....: CCA WHITE INK

Product numbers .....: TEST INK (CUR-JET 041)

REACH Registration No.: Registration numbers of the individual components: see section 3, if applicable.

#### 1.2. Relevant uses

Identified relevant use :

Sector of use.....: Research laboratorium subst ance/mixture

Product category.....: Laboratory chemicals

Uses advised against .:

non-professional use

#### 1.3. Details of the supplier of the safety data sheet

CMYK Consultancy

Morsestraat 11a-b

NL-4004 JP Tiel

Tel.: +31 6 55414740

E-mail: CMYK.consultancy@gmail.com

Authorized author of this safety data sheet : VAN DYCK GEERT

#### 1.4. Emergency telephone number

Emergency telephone number :+32 3 444 3333 (24h/24)

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of substance or mixture

Productdefinition : Mixture;Laboratory chemicals

#### Regulation(EC) No 1272/2008 (CLP)

(ATP07)

This product is not to be labelled as a dangerous substance or preparation as defined by Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation).

Full text of each relevant R- and H- phrase is listed in section 16.

#### 2.2. Label elements



GHS07.....exclamation mark

GHS08.....health hazard

GHS09.....environment

.....Danger

H302.....Harmful if swallowed.

H315.....Causes skin irritation.

H317.....May cause an allergic skin reaction

H319.....Causes serious eye irritation.

H361.....Suspected of damaging fertility or

H372.....Causes damage to organs through pr

H411.....Toxic to aquatic life with long las

EUH208.....Contains. May produce an allergic r

EUH210.....Safety data sheet available on requ

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# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

- P201.....Obtain special instructions before use.
- P202.....Do not handle until all safety precautions have been read and understood.
- P260.....Do not breathe dust/fume/gas/mist/vapours/spray.
- P264.....Wash ... thoroughly after handling.
- P270.....Do not eat, drink or smoke when using this product.
- P272.....Contaminated work clothing should not be allowed out of the workplace.

### 2.3. Other hazards

#### Additional Information

ATTENTION: the safety data of this research product are still incomplete!

The information stated is based upon the data relating to the most significant hazardous component(s). The product should be handled with the appropriate care and attention.

### 3. COMPOSITION/INFORMATION ON THE INGREDIENTS.

The hazard and labeling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 2.1  
Mixture; Laboratory chemicals

Hazardous components in the meaning of regulation (EC) No 1272/2008 (CLP)

30- 40% : ETHANOL, 2 - PHENOXY - , ACRYLATE

CASRN:0048145-04-6 EC:EINECS256-360-6 INDEX: REACHID:01-2119980532-35

GHS-pictogram.....: GHS07  
GHS-signalword.....: Warning  
GHS-hazard.....: H317  
GHS-classes.....: SkinSensitisation1 CutOffHazardExceeded AltNameMayBeRequested  
GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50  
oral.....: 0 mg/ kg  
dermal.....: 0 mg/kg  
inhalation.....: 0 mg/ l  
gases.....: 0 ppm V  
mist/dust.....: 0 mg/ l  
GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50  
acute.....: 0 mg/ l  
chronic.....: 0 mg/ l  
acute M-factor.....: 0  
chronic M-factor.....: 0

Water hazard class(WGK).....: 2  
GHS unknown oral toxicity.....: false  
GHS unknown dermal toxicity.....: false  
GHS unknown inhalation toxicity.....: false  
GHS Non-Additivity.....: false

10- 20% : 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE

CASRN:0084100-23-2 EC:EINECS282-104-8

GHS-pictogram.....: GHS07 GHS09  
GHS-signalword.....: Warning  
GHS-hazard.....: H315 H319 H335 H411  
GHS-classes.....: SkinCorrosionIrritation2; EyeDamageIrritation2;  
STOT\_SingleExposure3\_respiratory\_irritation; ChronicAquaticHazard2  
CutOffHazardExceeded NoAltNameAllowed  
GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50  
oral.....: 0 mg/ kg  
dermal.....: 0 mg/ kg  
inhalation.....: 0 mg/ l

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

gases.....: 0 ppm V  
mist/dust.....: 0 mg/ l  
GHS Aquatic Toxicity(Estimate) - LC50/EC5 0/ErC50  
acute.....: 0 mg/l  
chronic.....: 10 mg /l  
acute M-factor.....: 0  
chronic M-factor.....: 0  
Water hazard class(WGK).....: 0  
GHS unknown oral toxicity.....: false  
GHS unknown dermal toxicity.....: false  
GHS unknown inhalation toxicity.....: false  
GHS Non-Additivity.....: false  
10- 20% : 1-VINYLHEXAHYDRO-2H-AZEPIN-2-ONE  
CASRN:0002235-00-9 EC:EINECS218-787-6 INDEX: REACHID:01-2119977109-27  
GHS-pictogram.....: GHS07 GHS08  
GHS-signalword.....: Danger  
GHS-hazard.....: H302 H319 H317 H372  
GHS-classes.....: AcuteToxicityOral4; EyeDamageIrritation2; SkinSensitisation1;  
STOT\_RepeatedExposure1 CutOffHazardExceeded NoAltNameAllowed  
GHS Acute Toxicity (Estimate) Mammalian LD50/LC50  
oral.....: 500 m g/kg  
dermal.....: 0 mg/ kg  
inhalation.....: 0 mg/ l  
gases.....: 0 ppm V  
mist/dust.....: 0 mg/ l  
GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50  
acute.....: 0 mg/ l  
chronic.....: 0 mg/ l  
acute M-factor.....: 0  
chronic M-factor.....: 0  
Water hazard class(WGK).....: 2  
GHS unknown oral toxicity.....: false  
GHS unknown dermal toxicity.....: false  
GHS unknown inhalation toxicity.....: false  
GHS Non-Additivity.....: false  
5- 10% : 2-[[[BUTYLAMINO]CARBONYL]OXY]ETHYL ACRYLATE  
CASRN:0063225-53-6 EC:EC264-036-0;EINECS264-036-0  
GHS-pictogram.....: GHS07  
GHS-signalword.....: Warning  
GHS-hazard.....: H319 H315  
GHS-classes.....: EyeDamageIrritation 2; SkinCorrosionIrritation2  
CutOffHazardExceeded NoAltNameAllowed  
GHS Acute Toxicity (Estimate) Mammalian LD50/LC50  
oral.....: 0 mg/kg  
dermal.....: 0 mg/ kg  
inhalation.....: 0 mg/ l  
gases.....: 0 ppm V  
mist/dust.....: 0 mg/ l  
GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50  
acute.....: 0 mg/ l  
chronic.....: 0 mg/ l  
acute M-factor.....: 0  
chronic M-factor.....: 0  
Water hazard class(WGK).....: 0  
GHS unknown oral toxicity.....: false  
GHS unknown dermal toxicity.....: false

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

GHS unknown inhalation toxicity.....: false

GHS Non-Additivity.....: false

1- 5% : DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE

CASRN:0075980-60-8 EC:278-355-8 INDEX:015-2 03-00-X REACHID:01-2119972295-29

GHS-pictogram.....: GHS09 GHS08

GHS-signalword.....: Warning

GHS-hazard.....: H317 H361 H411 EUH2 10

GHS-classes.....: SkinSensitisation1; ReproductiveToxicity2;

ChronicAquaticHazard2; EUH210\_1 CutOffHazardExceede d

NoAltNameAllowed

GHS Acute Toxicity (Estimate) MammalianLD50/LC50

oral.....: 0 mg/ kg

dermal.....: 0 mg/ kg

inhalation.....: 0 mg/ l

gases.....: 0 ppm V

mist/dust.....: 0 mg/ l

GHS Aquatic Toxicity(Estimate) - LC50/EC0/ErC50

acute.....: 0 mg/ l

chronic.....: 10 mg /l

acute M-factor.....: 0

chronic M-factor.....: 0

Water hazard class(WGK).....: 2

GHS unknown oral toxicity.....: false

GHS unknown dermal toxicity.....: false

GHS unknown inhalation toxicity.....: false

GHS Non-Additivity.....: false

1- 5% : DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE

CASRN:0075980-60-8 EC:EINECS278-355-8 INDEX: REACHID:01-2119972295-29

GHS-pictogram.....: GHS08 GHS09

GHS-signalword.....: Danger

GHS-hazard.....: H361fd H410

GHS-classes.....: ReproductiveToxicity 2; ChronicAquaticHazard1

CutOffHazardExceeded NoAltNameAllowed

GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50

oral.....: 0 mg/ kg

dermal.....: 0 mg/ kg

inhalation.....: 0 mg/l

gases.....: 0 ppm V

mist/dust.....: 0 mg/l

GHS Aquatic Toxicity(Estimate) - LC50/EC5 0/ErC50

acute.....: 0 mg/ l

chronic.....: 1 mg/ l

acute M-factor.....: 0

chronic M-factor.....: 0

Water hazard class(WGK).....: 2

GHS unknown oral toxicity.....: false

GHS unknown dermal toxicity.....: false

GHS unknown inhalation toxicity.....: false

GHS Non-Additivity.....: false

- % : components with unknown toxicity

## 4. FIRST-AID MEASURES

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

### 4.1. Description of first aid measures

#### 4.1.1. General notes

General Advice .....: Persons who have been in contact with the substance or have inhaled fumes should get immediate medical attention. Pass on all available product informatio

n.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Specific treatment.

Take off contaminated clothing and wash it before reuse.

#### 4.1.2. Following inhalation

not available

#### 4.1.3. Following skin contact

Remove contaminated clothing immediately and wash affected skin with soap and plenty of water. IF ON SKIN: Wash with plenty water/... If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.

#### 4.1.4. Following eye contact

If substance has got into eyes, wash out with water for at least 15 minutes and seek immediate medical attention. 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.

#### 4.1.5. Following ingestion

Rinse mouth. Only induce vomiting at the instruction of medical personnel. Seek medical advice. IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell. Rinse mouth.

#### 4.1.6. Self-protection of the first aider

not available

### 4.2. Most important symptoms and effects, both acute and delayed

not available

### 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor .....: In case of shortness of breath, give oxygen. Keep victim warm.

## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Extinguish with foam. Do not use water jet or fog (spray), or dry powder to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Heating of container(s) will cause pressure rise with risk of bursting and subsequent explosion. Gives off toxic and irritant fumes when heated or burning. It spreads along the ground and may enter sewers and basements.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

Keep away from heat or open flame.

### 5.4. Additional Information

Remove contaminated clothing as soon as possible and before leaving incident. Drench with water/detergent before transporting from incident.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment: Eye-rinsing bottle with pure water. Close-fitting safety goggles. Wear impermeable gloves.

Emergency procedures: Mark off the place of the accident for other road users. The product must be treated with the usual care for chemicals. No smoking/no open fire. Consult an expert. See section 14 for available EmS-code (IMDG)

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n 14 for

#### 6.1.2. For emergency responders

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

For emergency responders: Self contained breathing apparatus.  
Personal protective equipment: not available

### 6.2. Environmental precautions

The relevant environmental information for the substances employed was not available at the time of compilation of this document. Avoid release to the environment. If the product has entered the sewer or a water-course, warn police / fire-brigade.

tances employed was not  
nt. Avoid release to the  
r a water-course, warn police /

### 6.3. Methods and material for containment and cleaning up

#### 6.3.1. For containment

Contain spillage by any means available. No special precautions.

#### 6.3.2. For cleaning up

Moisten spilled product with water and shovel up. Carefully collect leftovers. Carry away the product to a safe site.  
Dispose of contents/container according to local regulations.

ollect the product in another vessel.  
to a safe site.  
gulations.

#### 6.3.3. Other information

Stop leaks if possible. If substance has entered a water course or sewer, inform the responsible authority. Ventilate sewers and basements where there is no risk to personnel or public.

water course or sewer, inform the  
ts where there is no risk to personnel

### 6.4. Reference to other sections

See section 14 for available EmS-code (IMDG).  
See section 13 for waste disposal.

### 6.5. Additional Information

The vapour may be invisible and is heavier than air

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

n read and understood.

t of the workplace.

ection/face protection.

#### 7.1.1. Protective measures

The product should be handled with the care usual when dealing with chemicals.

hen dealing with chemicals.

#### 7.1.2. Advice on general occupational hygiene

Do not eat, drink or smoke when using this product.  
Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Wash hands after use. Remove  
re entering eating areas.

### 7.2. Conditions for safe storage, including any incompatibilities

No smoking/no open fire. Store in a dry place and well closed.  
Keep only in original container.  
Store locked up.

ell closed.

List of EU- and country-specific regulations for Mixtures/Substance

xture/Substance

=====

DE TRGS 510 Lagerung von Gefahrstoffen in ortsbeweglichen Behältern (LGK)  
Storage hazardclass: LGK6.1D: Non-combustible, and acute toxicity, categories 3 / toxic or hazardous substances with chronic effects

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lichen Behältern (LGK)  
cute toxicity, categories 3 / toxic or

### 7.3. Specific end uses

Use as laboratory reagent

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limits

List of occupational exposure limits (OEL)  
from EC and country specific regulations

=====  
not available

##### 8.1.2. Biological limit values

LIST OF BIOLOGICAL LIMIT VALUES (BLV)

=====  
not available

##### 8.1.3. Exposure limits at intended use

not available

##### 8.1.4. DNEL/PNEC-values

List of derived no-effect effect limits (DNEL)

=====  
-> CASRN0048145-04-6: ETHANOL, 2 - PHENOXY -, ACRY

LATE

DNEL, workers:

dermal(local).....: 0 mg/kg  
dermal(systemic).....: 0 mg/kg  
inhalation(local).....: 77 mg/m3  
inhalation(systemic)....: 10 mg/m3  
oral(local).....: 0 mg/kg  
oral(systemic).....: 0 mg/kg

-----  
-> CASRN0002235-00-9: 1-VINYLBENZENE, 2-(4-ETHOXYPHENYL)-

ONE

DNEL, workers:

dermal(local).....: 0 mg/kg  
dermal(systemic).....: 0 mg/kg  
inhalation(local).....: 0,17 mg/m3  
inhalation(systemic)....: 4,9 mg/m3  
oral(local).....: 0 mg/kg  
oral(systemic).....: 0 mg/kg

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-> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYL)BENZENE

YL)PHOSPHINE OXIDE

DNEL, workers:

dermal(local).....: 0 mg/kg  
dermal(systemic).....: 0 mg/kg  
inhalation(systemic)....: 3,5 mg/m3  
oral(local).....: 0 mg/kg  
oral(systemic).....: 0 mg/kg

-----  
-> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYL)BENZENE

YL)PHOSPHINE OXIDE

DNEL, workers:

dermal(local).....: 0 mg/kg  
dermal(systemic).....: 0 mg/kg  
inhalation(systemic)....: 3,5 mg/m3  
oral(local).....: 0 mg/kg  
oral(systemic).....: 0 mg/kg

-----  
List of predicted no effect concentrations (PNEC)

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

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not available

### 8.1.5. Risk management measures according to used control banding approach

Control banding for chemicals according to the ILO  
available

CHEMICAL CONTROL TOOLKIT (ICCT): not available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Observe good industrial hygiene practices

#### 8.2.2. Personal protective equipment

Eye / Face protection ..... Safety glasses or face  
Skin protection ..... Wear suitable protective clothing.  
Hand protection ..... Chemical-resistant,

impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures consisting of several substances, the protection time of the gloves cannot be accurately estimated. Avoid gloves made of natural latex.

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Respiratory protection ..... Under normal conditions of use, respirator protection not required. If respirators are used, institute a program in accordance with local regulations and standards.

Respiratory protection ..... Under normal conditions of use, respirator protection not required. If respirators are used, institute a program in accordance with local regulations and standards.

Thermal hazards ..... Under normal conditions of use, thermal protection not required.

Thermal hazards ..... Under normal conditions of use, thermal protection not required.

#### 8.2.3. Environmental exposure controls

Effluent regulations/discharge/treatment/contents must comply with local regulations. Please consult the local regulations regarding the release into drain. Collect for removal by a licensed waste contractor.

Environmental exposure controls may vary from one area to another. Please consult the local regulations regarding the disposal of this material. Do not dispose of this material in the drain. Collect for removal by a licensed waste contractor.

#### 8.2.4. Consumer exposure control

not applicable

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### 9.1.1. Appearance

Appearance ..... : liquid  
Colour ..... : white  
Odour ..... : characteristic  
Odour threshold ..... : not available

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#### 9.1.2. Safety relevant basic data

pH (25°C) ..... : not available  
Melting/Freezing point (°C) ..... : not available  
Boiling point/range (°C) ..... : not available  
Flash Point (°C) ..... : not available  
Evaporation rate ..... : not available  
Flammability (solids, gas) ..... : not available  
Upper/lower flammability or explosive limits : not available  
Vapour Pressure, Pa at °C ..... : 230  
Vapor density ..... :

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# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

Relative Density ..... : not availab le  
Solubility in water and solvents (mg/l) : not avai lable  
Partition coefficient: n-octanol/water : not availa ble  
Auto-ignition temperature (°C) ..... : not availab le  
Decomposition temperature (°C) ..... : not availab le  
Viscosity (at 20°C) ..... : not availab le  
Explosive properties ..... : not applica ble  
Oxidising properties ..... : not availab le  
Combustibility BZ/R ..... : not availab le  
Combustibility BZ/100 ..... : not availab le

### 9.1.3. Physical hazards

To be annexed to this SDS after REACH registration is completed

### 9.2. Other information

not available

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Non-examined product. Reactivity is not to be expected under normal conditions of temperature and pressure.

### 10.2. Chemical Stability

Probably stable material. No information is available on the behaviour of the product in the event of rupture of the packaging.

### 10.3. Possibility of hazardous reactions

Decomposition temperature ..... : not available  
Decomposition energy ..... : not available  
Exothermic reaction..... : not available

### 10.4. Conditions to avoid

Dust explosion class..... : not available  
Explosion by shock..... : not available  
Explosion by friction..... : not available

### 10.5. Incompatible materials

Non-examined product, no dangers known.

### 10.6. Hazardous decomposition products

When heated to decomposition, emission possible of toxic or caustic fumes.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### 11.1.1. Acute Toxicity

toxicity of substance/mixture as a whole :  
Harmful if swallowed.  
Classification procedure: Calculation method.  
ATEmix(oral).....: 0 mg/kg  
ATEmix(dermal).....: 0 mg/kg  
ATEmix(inhalation).....: 0 mg/L  
ATEmix(gases).....: 0 ppmV  
ATEmix(mist/dust).....: 0 mg/l

#### 11.1.2. Skin corrosion/irritation

Skin corrosion/irritation of substance/mixture as a whole :  
=====   
Causes skin irritation.

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

Classification procedure: Expert judgement and weight of evidence determination.

Skin corrosion/irritation of individual components in pure state :

- =====  
-> CASRN0084100-23-2: 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE  
Causes skin irritation.  
-> CASRN0063225-53-6: 2-[[[BUTYLAMINO)CARBONYL]OXY] ETHYL ACRYLATE  
Causes skin irritation.

### 11.1.3. Serious eye damage/irritation

Eye damage/irritation of substance/mixture as a whole le :

=====  
Causes serious eye irritation.  
Classification procedure: Expert judgement and weight of evidence determination.

Eye damage/irritation of individual components in pure state :

- =====  
-> CASRN0084100-23-2: 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE  
Causes serious eye irritation.  
-> CASRN0002235-00-9: 1-VINYLBIPHENYL-2-ETHYL ACRYLATE  
Causes serious eye irritation.  
-> CASRN0063225-53-6: 2-[[[BUTYLAMINO)CARBONYL]OXY] ETHYL ACRYLATE  
Causes serious eye irritation.

### 11.1.4. Respiratory or skin sensitization

Respiratory/skin sensitization of substance/mixture as a whole :

=====  
May cause an allergic skin reaction.  
Classification procedure: Calculation method.

Respiratory/skin sensitization of individual components in pure state :

- =====  
-> CASRN0048145-04-6: ETHANOL, 2 - PHENOXY - , ACRYLATE  
May cause an allergic skin reaction.  
-> CASRN0002235-00-9: 1-VINYLBIPHENYL-2-ETHYL ACRYLATE  
May cause an allergic skin reaction.  
-> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE  
May cause an allergic skin reaction.

### 11.1.5. germ cell mutagenicity

Mutagenicity of substance/mixture as a whole :

=====  
Based on available data, the classification criteria are not met.

Mutagenicity of individual components in pure state :

- =====  
-> CASRN0048145-04-6: ETHANOL, 2 - PHENOXY - , ACRYLATE  
no data available LATE  
-> CASRN0084100-23-2: 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE  
no data available  
-> CASRN0002235-00-9: 1-VINYLBIPHENYL-2-ETHYL ACRYLATE  
no data available ONE  
-> CASRN0063225-53-6: 2-[[[BUTYLAMINO)CARBONYL]OXY] ETHYL ACRYLATE  
no data available  
-> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE  
no data available

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

-> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE  
no data available

### 11.1.6. carcinogenicity

carcinogenicity of substance/mixture as a whole :

=====  
Based on available data, the classification criteria are not met.

carcinogenicity of individual components in pure state :  
=====

-> CASRN0048145-04-6: ETHANOL, 2 - PHENOXY - , ACRYLATE  
no data available LATE  
-> CASRN0084100-23-2: 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE  
no data available YL ACRYLATE  
-> CASRN0002235-00-9: 1-VINYLBENZYL-2-PIPERIDIN-2-ONE  
no data available ONE  
-> CASRN0063225-53-6: 2-[[[BUTYLAMINO]CARBONYL]OXY]ETHYL ACRYLATE  
no data available ETHYL ACRYLATE  
-> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE  
no data available YL)PHOSPHINE OXIDE  
-> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE  
no data available YL)PHOSPHINE OXIDE

### 11.1.7. reproductive toxicity

Reproductive toxicity of substance/mixture as a whole :  
=====

Suspected of damaging fertility or the unborn child .

Reproductive toxicity of individual components in pure state :  
=====

-> CASRN0048145-04-6: ETHANOL, 2 - PHENOXY - , ACRYLATE  
no data available LATE  
-> CASRN0084100-23-2: 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE  
no data available YL ACRYLATE  
-> CASRN0002235-00-9: 1-VINYLBENZYL-2-PIPERIDIN-2-ONE  
no data available ONE  
-> CASRN0063225-53-6: 2-[[[BUTYLAMINO]CARBONYL]OXY]ETHYL ACRYLATE  
no data available ETHYL ACRYLATE  
-> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE  
Suspected of damaging fertility or the unborn child .  
-> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE  
Suspected of damaging fertility. Suspected of damaging the unborn child.

### 11.1.8. Specific target organ toxicity-single exposure (STOT-SE)

STOT-SE of substance/mixture as a whole :Based on available data, the classification criteria are not met.

### 11.1.9. Specific target organ toxicity--repeated exposure (STOT-RE)

STOT-RE of substance/mixture as a whole :Causes damage to organs through prolonged or repeated exposure .

### 11.1.10. Aspiration hazard

toxicity of substance/mixture as a whole :  
Based on available data, the classification criteria are not met.  
Classification procedure: Calculation method.

### 11.1.11. Additional hazards

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

11.1.12. Information on symptoms and effects

### 12. ECOLOGICAL INFORMATION

#### 12.1. Toxicity

##### 12.1.1. Aquatic toxicity

##### 12.1.2. Sediment toxicity

##### 12.1.3. Terrestrial toxicity

#### 12.2. Persistence and degradability

persistence/degradability of substance/mixture as a whole :  
BOD.....: not availabl e  
COD.....: not availabl e  
T-1/2(sea water).....: not availabl e  
T-1/2(fresh-water).....: not availabl e  
T-1/2(sea sediment).....: not availabl e  
T-1/2(freshwater sediment).....: not availabl e  
T-1/2(soil).....: not availabl e  
T-1/2(air).....: not availabl e  
bio-degradation.....: not availabl e  
Evaluation procedure persistence/degradability: Calculation method.  
Persistence/degradability assessment: not available

#### 12.3. Bioaccumulative potential

Bioaccumulation of substance/mixture as a whole :  
Partition coefficient(logPow).....: not availabl e  
bioconcentration factor(BCF).....:  
Bioaccumulation assessment: B-: no indication for bioaccumulation (logKow<3)  
Evaluation procedure Bioaccumulation: Calculation method.

#### 12.4. Mobility in soil

Mobility in soil of substance/mixture as a whole :  
Partition coefficient (logKoc).....: not availabl e  
Adsorption coefficient.....: not availabl e  
Mobility in soil: not available  
Evaluation procedure Mobility in soil: Calculation method.

#### 12.5. Result of PBT and vPvB assessment

PBT.....: no assessment available  
vPvB.....: no assessment available

#### 12.6. Other adverse effects

not available

#### 12.7. Additional Information

PROVISIONAL CALCULATED GESAMP Hazard Profile of substance/mixture

=====

NAME.....:	ARIGI UV F2 WHITE INK
EHS.....:	TRN.....:
CAS.....:	RTECS...:
A1a A1b A1 A1 B1 B2 C1 C2 C3 D1 D2 D3	E1 E2 E3
-----	-----
(0) (0) (0) (1) (1) (2) (2) SKT	NI

GESAMP/EHS profiles of individual components

=====

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

Legend: EHS=EHS Number (EHS=GESAMP Working Group on Substances Carried by Ships) NRT=NetRegister Tonnag  
 A1b=Bioaccumulation BCF, A1=Bioaccumulation, A2=Bio toxicity LC50/EC50/IC50 (mg/l), B2=Chronic aquatic mammalian oral toxicity LD50 (mg/kg) , C2=Acute mam (mg/kg), C3=Acute mammalian inhalation toxicity LC5 corrosion, D2=Eye irritation& corrosion, D3=Long-te E2=Physical effects on wildlife & benthic habitats amenities. The numerical scales start from 0 (no ha reflect increasing hazard. (GESAMP/EHS Composite Li evaluation of substances transported by ships)

the Evaluation of the Hazards of Harmful e, A1a=Bioaccumulation log Pow, degradation, B1=Acute aquatic toxicity NOEC (mg/l), C1=Acute malian dermal toxicity LD50 0 (mg/kg), D1=Skin irritation& rm health effects, E1=Tainting, , E3=Interference with coastal zard), while higher numbers st of Hazard Profiles - Hazard

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

##### 13.1.1. WASTE CODE

EWC: 16 03 05

##### HAZARDOUS PROPERTIES OF WASTE:

H4 'Irritant': non-corrosive substances and prepara prolonged or repeated contact with the skin or muco  
 H6 'Toxic': substances and preparations (including preparations) which, if they are inhaled or ingeste involve serious, acute or chronic health risks and  
 H13 'Sensitizing': substances and preparations whi penetrate the skin, are capable of eliciting a reac on further exposure to the substance or preparation produced.  
 H14 'Ecotoxic': waste which presents or may present or more sectors of the environment.

tions which, through immediate, us membrane, can cause inflammation. very toxic substances and d or if they penetrate the skin, may even death. ch, if they are inhaled or if they tion of hypersensitization such that , characteristic adverse effects are immediate or delayed risks for one

##### WASTE PACKAGING:

EWC: 150 106

##### 13.1.2. Waste treatment options

##### 13.1.3. Other disposal recommendations

### 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (IATA-DGR/ICAO-TI)
<b>14.1. UN-number</b>	3082	3082	3082	3082
<b>14.2. Proper shipping name</b>	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE(S) liquid, n.o.s. MIXTURE (contains 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE;DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE;BUTYLHYDROXY TOLUENE (BHT)) -	ENVIRONMENTALLY HAZARDOUS SUBSTANCE(S) liquid, n.o.s. MIXTURE (contains 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE;DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE;BUTYLHYDROXY TOLUENE (BHT)) - ENVIRONMENTALLY	ENVIRONMENTALLY HAZARDOUS SUBSTANCE(S) liquid, n.o.s. MIXTURE (contains 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE;DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE;BUTYLHYDROXY TOLUENE (BHT)) - ENVIRONMENTALLY	ENVIRONMENTALLY HAZARDOUS SUBSTANCE(S) liquid, n.o.s. MIXTURE (contains 4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE;DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE;BUTYLHYDROXY TOLUENE (BHT)) - ENVIRONMENTALLY

# SAFETY DATA SHEET

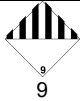
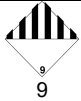
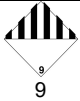
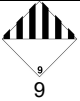
According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

	ENVIRONMENTALLY HAZARDOUS	HAZARDOUS	HAZARDOUS	HAZARDOUS
<b>14.3. classes</b>	9(M6)	9	9	9
<b>Labelling Number</b>				
<b>14.4. Packing group</b>	III	III	III	III
<b>14.5. Environmental hazard</b>	YES	YES		YES

**14.6. Special precautions for user**

Warning: Environment hazard LIQUID, n.o.s.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC code**

Transport in bulk not intended for this product.

**14.8. Additional Information**

**14.8.1. Land transport (ADR/RID)**

STATE.....: LIQUID  
 Classification Code.....: M6  
 special provisions.....: 274;335;375;60 1  
 packinginstructions.....: P001;IBC03;LP0 1;R001  
 special packingprovisions.....: PP1  
 mixed packingprovisions.....: MP19  
 tankinstructions.....: T4  
 special provisions portable tank...: TP1;TP29  
 tankcode.....: LGBV  
 special provisions tank.....:  
 vehical for tank carriage.....: AT  
 special provisions packages.....: V12  
 special provisions bulk.....:  
 special provisions loading.....: CV13  
 special provisions handling.....:  
 hazardidentification.....: 90  
 transportcategory.....: 3  
 tunnelcode.....: E  
 Quantity limitation.....: 5 L  
 Excepted Quantity Code (EQ).....: E1  
 Remarks.....: Warning: Envir onment hazard LIQUID, n.o.s.;

**14.8.2. Inland waterway transport (ADN)**

Classification Code.....: M6  
 special provisions.....: 274; 335; 375; 601  
 Quantity limitation.....: 5L  
 Excepted Quantity Code (EQ).....: E1  
 CARRIAGEPERMITTED.....: T  
 equipment required.....: PP  
 ventillation.....:  
 special provisions loading.....:  
 special provisions handling.....:  
 special provisions inspection.....:  
 CONES\_LIGHTS.....: 0  
 Remarks.....: Warning: Envir onment hazard LIQUID, n.o.s.;

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

### 14.8.3. Sea transport (IMDG)

subsidiary risk.....: -  
special provisions.....: 274;335;969  
Quantity limitation.....: 5L  
Excepted Quantity Code (EQ).....: E1  
packing instructions.....: P001;LP01  
special packing provisions.....: PP1  
IBC-instructions.....: IBC03  
IBC special provisions.....: -  
tank instructions.....: T4  
special provisions tank.....: TP2;TP29  
vessel stowage .....: Category A  
vessel segregation.....:  
EmS.....: F-A;S-F  
Marine Pollutant.....:  
segregation groups.....:  
Remarks.....: Warning: Envir

Environment hazard LIQUID, n.o.s.;

### 14.8.4. ICAO/IATA cargo aircraft transport

ERGCODE.....: 9L  
subsidiary risk.....:  
Excepted Quantity Code (EQ).....: E1  
IS BOLD.....: WAAR  
special packing provisions.....: A97,A158  
MaxNet\_CARGO.....: 450L  
packing instructions CARGO.....: 964  
Remarks.....: Warning: Envir

Environment hazard LIQUID, n.o.s.;

### 14.8.5. ICAO/IATA passenger and cargo aircraft

ERGCODE.....: 9L  
subsidiary risk.....:  
Excepted Quantity Code (EQ).....: E1  
IS BOLD.....: WAAR  
special packing provisions.....: A97,A158  
MaxNet\_PAX.....: 450L  
packing instructions PAX.....: 964  
Remarks.....: Warning: Envir

Environment hazard LIQUID, n.o.s.;

### 14.8.6. ICAO/IATA Limited Quantity (LQ) passenger aircraft

ERGCODE.....: 9L  
subsidiary risk.....:  
Excepted Quantity Code (EQ).....: E1  
IS BOLD.....: WAAR  
special packing provisions.....: A97,A158  
Quantity limitation.....: 30kgG  
Packing Instructions (LQ).....: Y964  
Remarks.....: Warning: Envir

Environment hazard LIQUID, n.o.s.;

### 14.8.7. UN "Model Regulation"

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE(S) liquid, n.o.s. MIXTURE (contains  
4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE;DIPHENYL(2,4,6-  
TRIMETHYLBENZOYL)PHOSPHINE OXIDE;BUTYLHYDROXYTOLUENE (BHT)) -  
ENVIRONMENTALLY HAZARDOUS, 9III

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

### 15. REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Ensure all federal/state/national/local regulations are observed  
not yet fully tested CAUTION: Substance/mixture

Status components on INVENTORIES

=====  
CASRN:0048145-04-6; EC:EINECS256-360-6; INDEX:

NAME :ETHANOL, 2 - PHENOXY - , ACRYLATE

AU\_AICS:YES / CA\_DSL:YES / CA\_NDSL(2015-sep-29):NO / CN\_CIHC(2015):NO / CN\_IECSC:YES /  
EU\_EINECS:YES / EU\_ELINCS(2009):NO / EU\_NLP(2007):N O / JP\_ENCS:YES /  
JP\_ISHL(2015):NO / EU\_REACH(2015):YES / KO\_KECI:YES / KO\_ KECI\_pre1997():NO /  
MX\_INSQ(2012):NO / NZ\_NZIoC:YES / PH\_PICCS:YES / TW\_ \_TCSI:YES / US\_TSCA:YES /

=====  
CASRN:0084100-23-2; EC:EINECS282-104-8; INDEX:

NAME :4-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACRYLATE

AU\_AICS:YES / CA\_DSL(2015-sep-23):NO / CA\_NDSL:YES / CN\_CIHC(2015):NO / CN\_IECSC:YES /  
EU\_EINECS:YES / EU\_ELINCS(2009):NO / EU\_NLP(2007):N O / JP\_ENCS(2015):NO /  
JP\_ISHL(2015):NO / EU\_REACH(2015):NO / KO\_KECI:YES / KO\_KECI\_pre1997():NO /  
MX\_INSQ(2012):NO / NZ\_NZIoC:YES / PH\_PICCS(2012):NO / TW\_TCSI:YES / US\_TSCA(2015-  
jan):NO /

=====  
CASRN:0002235-00-9; EC:EINECS218-787-6; INDEX:

NAME :1-VINYLBENZENE, 2-HYDROXY-2-PROPENYL

AU\_AICS:YES / CA\_DSL:YES / CA\_NDSL(2015-sep-29):NO / CN\_CIHC(2015):NO / CN\_IECSC:YES /  
EU\_EINECS:YES / EU\_ELINCS(2009):NO / EU\_NLP(2007):N O / JP\_ENCS:YES / JP\_ISHL:YES /  
EU\_REACH:YES / KO\_KECI:YES / KO\_KECI\_pre1997():NO / MX\_INSQ(2012):NO / NZ\_NZIoC:YES /  
/ PH\_PICCS:YES / TW\_TCSI:YES / US\_TSCA:YES /

=====  
CASRN:0063225-53-6; EC:EC264-036-0; EINECS264-036-0;

NAME :2-[[[BUTYLAMINO)CARBONYL]OXY]ETHYL ACRYLATE

AU\_AICS:YES / CA\_DSL(2015-sep-23):NO / CA\_NDSL:YES / INDEX:  
/ CN\_CIHC(2015):NO / CN\_IECSC:YES /  
EU\_EINECS:YES / EU\_ELINCS(2009):NO / EU\_NLP(2007):N O / JP\_ENCS(2015):NO /  
JP\_ISHL(2015):NO / EU\_REACH(2015):NO / KO\_KECI:YES / KO\_KECI\_pre1997():NO /  
MX\_INSQ(2012):NO / NZ\_NZIoC:YES / PH\_PICCS:YES / TW\_ \_TCSI:YES / US\_TSCA:YES /

=====  
CASRN:0075980-60-8; EC:278-355-8; INDEX:015-203-00-

NAME :DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXI

AU\_AICS:YES / CA\_DSL:YES / CA\_NDSL(2015-sep-29):NO / X  
DE  
/ CN\_CIHC(2015):NO / CN\_IECSC:YES /  
EU\_EINECS:YES / EU\_ELINCS(2009):NO / EU\_NLP(2007):N O / JP\_ENCS:YES / JP\_ISHL:YES /  
EU\_REACH:YES / KO\_KECI:YES / KO\_KECI\_pre1997():NO / MX\_INSQ:YES / NZ\_NZIoC:YES /  
PH\_PICCS:YES / TW\_TCSI:YES / US\_TSCA:YES /

=====  
CASRN:0075980-60-8; EC:EINECS278-355-8; INDEX:

NAME :DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXI

AU\_AICS:YES / CA\_DSL:YES / CA\_NDSL(2015-sep-29):NO / DE  
/ CN\_CIHC(2015):NO / CN\_IECSC:YES /  
EU\_EINECS:YES / EU\_ELINCS(2009):NO / EU\_NLP(2007):N O / JP\_ENCS:YES / JP\_ISHL:YES /  
EU\_REACH:YES / KO\_KECI:YES / KO\_KECI\_pre1997():NO / MX\_INSQ:YES / NZ\_NZIoC:YES /  
PH\_PICCS:YES / TW\_TCSI:YES / US\_TSCA:YES /

=====  
;List of EU- and country-specific regulations for c

omponents

=====  
CASRN:0063225-53-6; EC:EC264-036-0; EINECS264-036-0;

NAME :2-[[[BUTYLAMINO)CARBONYL]OXY]ETHYL ACRYLATE

EC 60/2000 Water Policy (2009-06-05) - main polluta

{5. PBT/zPzB/CMR}

NL Prioritaire Stoffen-Lijst 2011:

INDEX:

ts:



# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

{6. gelijkwaardige zorgstoffen} EC REACH (SVHC): Candidate List Substances of Very Reason Inclusion: Equivalent level of concern ha health (Article 57 f) Inclusion Date:2012-12-19	High Concern: ving probable serious effects to human
EC REACH (SVHC): Candidate List Substances of Very Reason Inclusion: Equivalent level of concern ha health (Article 57 f) Inclusion Date:2012-12-19	High Concern: ving probable serious effects to human
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EC REACH (SVHC): Candidate List Substances of Very Reason Inclusion: Equivalent level of concern ha health (Article 57 f) Inclusion Date:2012-12-19	High Concern: ving probable serious effects to human
EC REACH (SVHC): Candidate List Substances of Very Reason Inclusion: Equivalent level of concern ha health (Article 57 f) Inclusion Date:2012-12-19	High Concern: ving probable serious effects to human

List of EU- and country-specific regulations for Mi	xture/Substance
NL waterbezwaarlijkheid (ABM) waterbezwaarlijkheid: Bevat zwarte-lijststof.,V bevat stoffen die gevaarlijk zijn voor het aquatisc A]	ergiftig voor in water levende organismen; h milieu., [saneringsinspanning:
DE 1999 Verwaltungsvorschrift wassergefährdende Sto Water hazard classWGK: 2 - hazardous for waterWG	ffe (VwVwS/WGK) K2 (calculation)
EC 1999/13 volatile organic compounds (VOC-guidelin VOC: 0.824%	e)
DE Störfall/Verordnung - 12. BImSchV (stand 26.11.2 Klasse: 9b. - Umweltgefährlich: Description: in Verbindung mit dem Gefahrenhinw Lower limit:200ton Upper limit:500ton	010) eis R 51/53
EC 2012/18 SEVESO III Class Substance/Mixture: E2 - HAZARDOUS TO AQUA Description: chronic 2 Lower limit:100ton Upper limit:200ton	TIC ENVIRONMENT:

### 15.2. Chemical safety assessment

No chemical safety assessment (CSA) has been carried out for this substance/mixture by the supplier.

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

### 16. OTHER INFORMATION

#### 16.1. Indication of changes

First Issuing date.....:2016-02-17

Revision Date.....:2016-02-17

#### 16.2. Abbreviations and acronyms

ADN.....European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR.....European Agreement Concerning the International Carriage of Dangerous Goods by Road

BCF.....bioconcentration factor

CLP.....European Union system of classification, labelling and packaging chemical substances and mixtures.

DNEL.....derived no effect level

EMS.....EmS code

GESAMP .....Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection

GHS.....'Global Harmonised System'

IBC.....Intermediate Bulk Container

IDMG.....International Maritime Dangerous Goods Code

ICAO.....International Civil Aviation Organization

IATA.....International Air Transport Association

LOAEL.....lowest observed adverse effect level

MARPOL.....International Convention for the Prevention of Pollution From Ships

NOAEL.....No Observed Adverse Effect Level

OPCW.....Organisation for the Prohibition of Chemical Weapons

PNEC.....predicted no effect concentration

REACH.....REACH

RID.....International regulations carriage of dangerous goods by rail.

TDG.....transport of dangerous good

#### 16.3. Sources of key data used to compile the datasheet

Safety Data Sheet(s) from the supplier(s). Product regulations EC EC 1272/2008 (CLP00), EC 790/2009 & (ATP02), EU 618/2012 (ATP03), EU 487/2013 (ATP04), (ATP06) & EU 1221/2015 (ATP07). GHS-classification from regulatory lists: 758/2013 (ATP01), EU 286/2011 EU 944/2013 (ATP05), EU 605/2014

From Transport classifications : ADR 2015, ADN 2015 TDG. Directive 2008/68/EC , RID 2015, IDMG 2014, ICAO/IATA, CFR49,

From EC regulations:

EC SVHC Substances of very high concern (2014-08-19)

EC 33/1994 Protection of young people at work

EC 62/1996 Air Quality Framework Directive

EC 24/1998 CHEMICAL AGENTS AT WORK

EC 13/1999 Limitation of emissions (VOC)

EC 60/2000 Water Policy (2009-06-05)

EC 38/2000 EXPOSURE LIMITS (1stList)

EC 648/2004 Detergent Regulation

EC 111/2005 Drug Precursors

EC 15/2006 EXPOSURE LIMITS (2ndList)

EC 161/2009 EXPOSURE LIMITS (3thList)

EC 37/2004 EXPOSURE CARCINOGENES MUTAGENS

EC 148/2009 EXPOSURE ASBESTOS

EC 111/2005 Drug Precursor Regulation

EC 1223/2009 COSMETICS

EU 10/2011 FOOD Contact Regulations (amended 1282 /2011)

EC 1107/2009 Plant Protection Products (PPP)

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



## CCA WHITE INK

Version 1.0

Revision Date: 2016-02-17 Print Date: 2016-02-17

EC 528/2012 BIOCIDAL PRODUCTS REGULATION  
EC 552/2009 SUBSTANCE RESTRICTION LIST  
EU 276/2010 SUBSTANCE RESTRICTION (ACRYLAMIDE)  
EU 412/2012 SUBSTANCE RESTRICTION (DMF)  
EU 835/2012 SUBSTANCE RESTRICTION (CADMIUM)  
EU 836/2012 SUBSTANCE RESTRICTION (LEAD)  
EU 847/2012 SUBSTANCE RESTRICTION (MERCURY)  
EU 848/2012 SUBSTANCE RESTRICTION (PHENYLMERCURY)  
EC 649/2012 IMPORT/EXPORT HAZARDOUS CHEMICALS (PIC) (689/2008)  
EC 1272/2013 SUBSTANCE RESTRICTION (PAHs)  
EU 2012/18 SEVESO III  
UN JUN/2012 GESAMP/EHS Composite List

From country-specific regulations:

BE KB 2011.06.01 Grenswaarden  
CA OHS guideline 5.48-1 (2013-05-01)  
CA Ontario OHS-act RRO1990 regulation 833 (2013-01-01)  
CA Quebec chapter S-2.1 (2013-07-01)  
DE TRGS-900 grenzwerten  
DE TRGS-910 Ausschuss für Gefahrstoffe 2012  
DE TRGS-510 Lagerung von Gefahrstoffen 2010(LGK)  
DE Störfall/Verordnung - 12. BImSchV (stand 26.11.2010) 010)  
DE 1999 Verwaltungsvorschrift wassergefährdende Stoffe (VwVwS/WGK)  
FR INRS ED 984  
NL ARBO A&V/2007/38900  
NL Staatscouranten Grenswaarden tot en met 2011  
NL Waterbezwaarlijkheidscategorisatie (ABM)  
UK Control of Substances Hazardous to Health Regulations 2005  
UK EH40/2005 Workplace exposure limits 2011  
US OSHA PEL 29 CFR 1910.1000 Z-1 Table  
US CAL/OSHA PEL Table AC-1 2013-04-26  
US NIOSH REL 2013-04-26  
US ACGIH 2015 TLV  
US EPA EXTREMELY HAZARDOUS SUBSTANCE (40 CFR 355, Appendix A)  
US SARA list of lists  
US State of California Prop. 65

### 16.4. Classification for mixtures and used evaluation method according to regulation EC 1207/2008 (CLP)

hazard [category]:Class

Classification procedure

- \* acute toxicity oral[Cat.4], H302  
Calculation method.
- \* skin corrosion or irritation[Cat.2], H315  
Expert judgement and weight of evidence determination.
- \* skin sensitisation[Cat.1], H317  
Expert judgement and weight of evidence determination.
- \* eye damage or irritation[Cat.2], H319  
Expert judgement and weight of evidence determination.
- \* reproductive toxicity[Cat.2], H361  
Expert judgement and weight of evidence determination.
- \* stot repeated exposure[Cat.1], H372  
Expert judgement and weight of evidence determination.
- \* chronic aquatic hazard[Cat.2], H411  
Calculation method.
- \* stot single exposure[Cat.3\_respiratory\_irritation], H335  
Expert judgement and weight of evidence determination.
- \* chronic aquatic hazard[Cat.4], H413  
Calculation method.
- \* reproductive toxicity[Cat.2], H361FD

# SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006 (Reach Annex II)



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Version 1.0

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- \* chronic aquatic hazard [Cat.1], H410  
Expert judgement and weight of evidence determination.  
Calculation method.
- \* eye damage or irritation [Cat.1], H318  
Expert judgement and weight of evidence determination.
- \* germ cell mutagenicity [Cat.2], H341  
Expert judgement and weight of evidence determination.

### 16.5. Full text of H-phrases mentioned in sections 2 to 15

- H317.....May cause an allergic skin reaction.
- H315.....Causes skin irritation.
- H319.....Causes serious eye irritation.
- H335.....May cause respiratory irritation.
- H411.....Toxic to aquatic life with long lasting effects.
- H302.....Harmful if swallowed.
- H372.....Causes damage to organs through prolonged or repeated exposure.
- H361.....Suspected of damaging fertility or the unborn child.
- EUH210.....Safety data sheet available on request.
- H361fd.....Suspected of damaging fertility. Suspected of damaging the unborn child.
- H410.....Very toxic to aquatic life with long lasting effects.
- EUH208.....Contains . May produce an allergic reaction.

### 16.6. Training advice.

not available Ensure operators understand the toxicity hazard.

### 16.7. Further Information.

The information disclosed in this Safety Datasheet is believed to be correct to the best of our knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty of the user to comply with local legislation relating to safety, health, environment and waste management.

<Exposure Scenario to be annexed to this SDS after REACH registration is completed >  
<End of Safety Data Sheet>