

# SAFETY DATA SHEET

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

### 1.1. Product identifier

Product name IC-767BK PRINTING INK

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Printing ink.

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

Supplier Inkminic Logo Technology (Guangzhou) Co., Ltd

### 1.4. Emergency telephone number

Emergency telephone 020-32954560 (24 Hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

### 2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

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

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container in accordance with national regulations.

Contains	Quaternary ammonium compounds, C12-14 (even-numbered) -alkylethyldimethyl, ethyl sulphates, N-Butanol
Supplementary precautionary statements	<p>P233 Keep container tightly closed.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P242 Use non-sparking tools.</p> <p>P243 Take action to prevent static discharges.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P330 Rinse mouth.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p>

### 2.3. Other hazards

None known.

Endocrine disrupting substances	This product does not contain any known or suspected endocrine disruptors over 0.1%
PBT and vPvB	The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Methyl propyl ketone	30-60%
CAS number: 107-87-9	EC number: 203-528-1
Classification	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H302	
Eye Irrit. 2 - H319	
ethanol	10-30%
CAS number: 64-17-5	EC number: 200-578-6
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
Quaternary ammonium compounds, C12-14 (even-numbered) - alkylethyldimethyl, ethyl sulphates	5-10%
CAS number: 1474044-65-9	EC number: 939-607-9
M factor (Acute) = 10	M factor (Chronic) = 1
Classification	
Acute Tox. 4 - H302	
Acute Tox. 3 - H311	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

Isopropyl Alcohol CAS number: 67-63-0	EC number: 200-661-7	1 - 5%
<p>Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336</p>		
Xylene CAS number: 1330-20-7	EC number: 215-535-7	1 - 5%
<p>Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315</p>		
N-Propyl Acetate CAS number: 109-60-4	EC number: 203-686-1	1 - 5%
<p>Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336</p>		
N-Butanol CAS number: 71-36-3	EC number: 200-751-6	1 - 5%
<p>Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336</p>		

The full text for all hazard statements is displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	IF SWALLOWED: Get medical attention. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation.
Skin contact	IF ON SKIN: Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	IF IN EYES: Get medical attention. Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.
Skin contact	Redness. Irritating to skin.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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

Notes for the doctor	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards	Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up. Take precautionary measures against static discharge.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).

#### 5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. No smoking, sparks, flames or other sources of ignition near spillage.
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#### 6.2. Environmental precautions

Environmental precautions	Harmful to aquatic life with long lasting effects. Contain spillage with sand, earth or other suitable non-combustible material. Use appropriate containment to avoid environmental contamination. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. Wash thoroughly after dealing with a spillage. Collect and dispose of spillage as indicated in Section 13.
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#### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Usage precautions	Flammable/combustible materials. Do not handle until all safety precautions have been read and understood. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use only non-sparking tools. Avoid discharge to the aquatic environment.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Do not eat, drink or smoke when using this product.

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

Storage precautions	Eliminate all sources of ignition. Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep containers upright. Take precautionary measures against static discharges.
Storage class	Flammable liquid storage.

#### 7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

### **SECTION 8: Exposure controls/Personal protection**

#### 8.1. Control parameters

Occupational exposure limits

Methyl propyl ketone

Long-term exposure limit (8-hour TWA): WEL 200 ppm 716 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 895 mg/m<sup>3</sup>

ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

Isopropyl Alcohol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

Xylene

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup>

Sk

N-Propyl Acetate

Long-term exposure limit (8-hour TWA): WEL 200 ppm 849 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 1060 mg/m<sup>3</sup>

N-Butanol

Short-term exposure limit (15-minute): WEL 50 ppm 154 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

#### Methyl propyl ketone (CAS: 107-87-9)

DNEL

REACH dossier information.

Workers - Inhalation; Long term systemic effects: 209.38 mg/m<sup>3</sup>

Workers - Inhalation; Short term systemic effects: 4783.5 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 19.89 mg/kg/day

PNEC	REACH dossier information. <ul style="list-style-type: none"> <li>- Fresh water; 0.11 mg/l</li> <li>- marine water; 0.011 mg/l</li> <li>- Intermittent release; 1.1 mg/l</li> <li>- STP; 0.25 mg/l</li> <li>- Sediment (Freshwater); 0.717 mg/kg</li> <li>- Sediment (Marinewater); 0.072 mg/kg</li> </ul>
	<u>ethanol (CAS: 64-17-5)</u>
DNEL	Workers - Inhalation; Long term systemic effects: 950 mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 1900 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 343 mg/kg/day
PNEC	<ul style="list-style-type: none"> <li>- Fresh water; 0.96 mg/l</li> <li>- marine water; 0.79 mg/l</li> <li>- Intermittent release; 2.75 mg/l</li> <li>- STP; 580 mg/l</li> <li>- Sediment (Freshwater); 3.6 mg/kg</li> <li>- Sediment (Marinewater); 2.9</li> <li>- Soil; 0.63 mg/kg</li> </ul>

Quaternary ammonium compounds, C12-14 (even-numbered) -alkylethyldimethyl, ethyl sulphates (CAS: 1474044-65-9)

DNEL	REACH dossier information. Workers - Inhalation; Long term systemic effects: 3.32 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 4.7 mg/kg/day
PNEC	REACH dossier information. <ul style="list-style-type: none"> <li>- Fresh water; 0.001 mg/l</li> <li>- marine water; 0 mg/l</li> <li>- STP; 0.9 mg/l</li> <li>- Sediment (Freshwater); 9.27 mg/kg</li> <li>- Sediment (Marinewater); 0.927 mg/kg</li> <li>- Soil; 7 mg/kg</li> </ul>

Isopropyl Alcohol (CAS: 67-63-0)

DNEL	Workers - Inhalation; Long term systemic effects: 500 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 888 mg/kg/day
PNEC	<ul style="list-style-type: none"> <li>- Fresh water; 140.9 mg/l</li> <li>- marine water; 140.9 mg/l</li> <li>- STP; 2251 mg/l</li> <li>- Sediment (Freshwater); 552 mg/kg</li> <li>- Sediment (Marinewater); 552 mg/kg</li> <li>- Soil; 28 mg/kg</li> </ul>

N-Butanol (CAS: 71-36-3)

DNEL	Workers - Inhalation; Long term local effects: 310 mg/m <sup>3</sup>
PNEC	<ul style="list-style-type: none"> <li>- Fresh water; 0.082 mg/l</li> <li>- marine water; 0.0082 mg/l</li> <li>- Sediment (Freshwater); 0.178 mg/kg</li> <li>- Sediment (Marinewater); 0.0178 mg/kg</li> <li>- Soil; 0.015 mg/kg</li> <li>- Intermittent release; 2.25 mg/l</li> <li>- STP; 2476 mg/l</li> </ul>

N-Propyl Acetate (CAS: 109-60-4)

DNEL	Workers - Inhalation; Short term local effects: 840 mg/m <sup>3</sup> Workers - Inhalation; Short term systemic effects: 840 mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 420 mg/m <sup>3</sup> Workers - Inhalation; Long term systemic effects: 420 mg/m <sup>3</sup>
PNEC	- Fresh water; 0.06 mg/l - marine water; 0.006 mg/l - Sediment (Freshwater); 0.16 mg/kg - Sediment (Marinewater); 0.016 mg/kg - Soil; 0.0215 mg/kg

Xylene (CAS: 1330-20-7)

DNEL	REACH dossier information. Workers - Inhalation; Long term systemic effects: 77 mg/m <sup>3</sup> Workers - Inhalation; Short term systemic effects: 289 mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 289 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 180 mg/kg/day
PNEC	REACH dossier information. - Fresh water; 0.327 mg/l - marine water; 0.327 mg/l - STP; 6.58 mg/l - Sediment (Freshwater); 12.46 mg/kg - Sediment (Marinewater); 12.46 mg/kg - Soil; 2.31 mg/kg

## 8.2. Exposure controls

### Protective equipment



Appropriate engineering controls	As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Ensure control measures are regularly inspected and maintained. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment that provides appropriate eye and face protection should be worn.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. For exposure up to 4 hours, wear gloves made of the following material: Butyl rubber. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Wear anti-static protective clothing if there is a risk of ignition from static electricity. Wear appropriate clothing to prevent skin contamination.
Hygiene measures	Provide eyewash station and safety shower. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
Environmental exposure controls	Keep container tightly sealed when not in use.

**SECTION 9: Physical and chemical properties**

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

Appearance	Liquid.
Colour	Black.
Odour	Solvent.
Odour threshold	Lower 11 ppm
pH	Not relevant. The product contains organic solvents. Technical impossibility to obtain the data.
Melting point	-78°C Information given is applicable to the major ingredient.
Initial boiling point and range	> 149°C/300°F
Flash point	8°C/46°F Tag closed cup.
Evaporation rate	2.3 (butyl acetate = 1) Information given is applicable to the major ingredient.
Flammability (solid, gas)	Not relevant. Flammable liquid
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.56 % Upper flammable/explosive limit: 8.7 % Information given is applicable to the major ingredient.
Vapour pressure	37 mbar @ 20°C Information given is applicable to the major ingredient.
Vapour density	> 1
Relative density	0.84
Solubility(ies)	Slightly soluble in water. Information given is applicable to the major ingredient.
Partition coefficient	log Pow: 0.857 Information given is applicable to the major ingredient.
Auto-ignition temperature	450°C Information given is applicable to the major ingredient.
Viscosity	3.5-3.9 cP @ 25°C
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

#### 9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 80.2 %. This product contains a maximum VOC content of 0.677 kg/l.
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### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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#### 10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react strongly with the product: Oxidising agents.

#### 10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.
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#### 10.5. Incompatible materials

Materials to avoid	Oxidising materials. Acids - oxidising.
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#### 10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 2,370.99

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 5,689.66

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 1,100.0

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Eye Dam. 1 - H318 Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

Contains a substance which may be potentially carcinogenic. IARC Group 2B Possibly carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact	No specific symptoms known.		
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.		
Route of exposure	Ingestion Inhalation Skin and/or eye contact		
Target organs	No specific target organs known.		
Endocrine disrupting substances	This product does not contain any known or suspected endocrine disruptors over 0.1%		

#### Toxicological information on ingredients.

##### ethanol

###### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) REACH dossier information.

###### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) REACH dossier information.

###### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> 125.0  
vapours mg/l)

Notes (inhalation LC<sub>50</sub>) REACH dossier information.

ATE inhalation (vapours mg/l) 125.0

###### Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

##### Isopropyl Alcohol

###### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Supplier's information. LD<sub>50</sub> >2000 mg/kg, Oral, Rat

###### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Supplier's information. LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

###### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) REACH dossier information. LC<sub>50</sub> > 10000 ppm, Inhalation, Rat

###### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

##### Xylene

###### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 3,523.0  
mg/kg)

Species Rat

ATE oral (mg/kg) 3,523.0

###### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) REACH dossier information. LD<sub>50</sub> > 5000 ml/kg, Dermal, Rabbit

ATE dermal (mg/kg) 1,100.0

###### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

###### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

N-Propyl Acetate

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 8,700.0

Species Rat

ATE oral (mg/kg) 8,700.0

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) REACH dossier information. LD<sub>50</sub> >17800 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> 32.0 vapours mg/l)

Species Rat

ATE inhalation (vapours mg/l) 32.0

N-Butanol

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 200 - 2000 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) REACH dossier information. LC<sub>50</sub> >17.76 mg/l, Inhalation, Rat

**SECTION 12: Ecological information**

12.1. Toxicity

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

Ecological information on ingredients.

ethanol

Acute aquatic toxicity

Acute toxicity - fish REACH dossier information.  
EC<sub>50</sub>, 200 hours: 3900 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 24 hours: 20803 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, 7 days: 467 mg/l, Freshwater plants

Acute toxicity - microorganisms IC<sub>50</sub>, 3 hours: >1000 mg/l, Activated sludge

Acute toxicity - terrestrial LC<sub>50</sub>, 48 hours: >1 mg/cm<sup>2</sup>, Eisenia Fetida (Earthworm)

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 42 hours: 500 mg/l, Brachydanio rerio (Zebra Fish)

Chronic toxicity - aquatic invertebrates      LC<sub>50</sub>, 4 days: 12070 mg/l, Marinewater invertebrates

#### Isopropyl Alcohol

##### Acute aquatic toxicity

Acute toxicity - fish      Supplier's information.  
LC<sub>50</sub>, 48 hours: > 100 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates      Supplier's information.  
EC<sub>50</sub>, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants      Supplier's information.  
EC<sub>50</sub>, 72 hours: > 100 mg/l, Scenedesmus subspicatus

#### Xylene

##### Acute aquatic toxicity

Acute toxicity - fish      REACH dossier information.  
LC<sub>50</sub>, 96 hours: 2.6 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates      REACH dossier information.  
IC<sub>50</sub>, 24 hours: 1 mg/l, Daphnia magna

Acute toxicity - aquatic plants      REACH dossier information.  
NOEC, 73 hours: 0.44 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms      REACH dossier information.  
NOEC, 3 hours: 157 mg/l, Activated sludge

##### Chronic aquatic toxicity

Chronic toxicity - fish early life stage      REACH dossier information.  
NOEC, 56 days: > 1.3 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates      REACH dossier information.  
NOEC, 21 days: 1.57 mg/l, Daphnia magna

#### N-Propyl Acetate

##### Acute aquatic toxicity

Acute toxicity - fish      REACH dossier information.  
LC<sub>50</sub>, 96 hours: 60 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates      REACH dossier information.  
NOEC, 48 hours: 32.1 mg/l, Daphnia magna  
EC<sub>50</sub>, 48 hours: 91.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants      REACH dossier information.  
NOEC, 72 hours: 83.2 mg/l, Pseudokirchneriella subcapitata  
EC<sub>50</sub>, 72 hours: 672 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms      REACH dossier information.  
IC<sub>50</sub>, 16 hours: >1000 mg/l, Activated sludge

#### N-Butanol

##### Acute aquatic toxicity

Acute toxicity - fish      LC<sub>50</sub>, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates      EC<sub>50</sub>, 7 days: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants      EC<sub>50</sub>, 96 hours: 225 mg/l, Selenastrum capricornutum

## 12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

**12.3. Bioaccumulative potential**

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: 0.857 Information given is applicable to the major ingredient.

Ecological information on ingredients.

ethanol

Partition coefficient log Pow: 0.32

Isopropyl Alcohol

Partition coefficient log Pow: 0.05

Xylene

Partition coefficient log Pow: 3.15

N-Propyl Acetate

Partition coefficient log Pow: 1.4

N-Butanol

Partition coefficient log Pow: 1

**12.4. Mobility in soil**

Mobility No data available.

**12.5. Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration

**12.6. Other adverse effects**

Other adverse effects None known.

Endocrine disrupting substances This product does not contain any known or suspected endocrine disruptors over 0.1%

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

General information The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out.

Disposal methods Dispose of waste product or used containers in accordance with local regulations. Only store in correctly labelled containers. This material and its container must be disposed of as hazardous waste. Do not empty into drains. .

**SECTION 14: Transport information**

**14.1. UN number**

UN No. (ADR/RID) 1210

UN No. (IMDG) 1210

UN No. (ICAO) 1210

UN No. (ADN) 1210

14.2. UN proper shipping name

Proper shipping name (ADR/RID) PRINTING INK

Proper shipping name (IMDG) PRINTING INK (CONTAINS Quaternary ammonium compounds, C12-14 (even-numbered) - alkylethyldimethyl, ethyl sulphates)

Proper shipping name (ICAO) PRINTING INK

Proper shipping name (ADN) PRINTING INK

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-E, S-D

ADR transport category 2

Emergency Action Code •3YE

Hazard Identification Number 33  
(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

**SECTION 15: Regulatory information**

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

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ATE: Acute Toxicity Estimate.
	CAS: Chemical Abstracts Service.
	DNEL: Derived No Effect Level.
	EC <sub>50</sub> : 50% of maximal Effective Concentration.
	GHS: Globally Harmonized System.
	IARC: International Agency for Research on Cancer.
	IATA: International Air Transport Association.
	Kow: Octanol-water partition coefficient.
	LC50: Lethal Concentration to 50 % of a test population.
	LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
	LOAEL: Lowest Observed Adverse Effect Level.
	NOAEL: No Observed Adverse Effect Level.
	PBT: Persistent, Bioaccumulative and Toxic substance.
	PNEC: Predicted No Effect Concentration.
	REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.
	SVHC: Substances of Very High Concern.
	vPvB: Very Persistent and Very Bioaccumulative.

Key literature references and sources for data      Source: European Chemicals Agency, <http://echa.europa.eu/>

Classification procedures according to SI 2019 No. 720 : Calculation method.

Training advice Only trained personnel should use this material. No action shall be taken without appropriate training or involving any personal risk. Ensure operatives are trained to minimise exposure. Ensure procedures and training for emergency decontamination and disposal are in place.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 16/02/2023

Revision 4

Supersedes date 30/09/2022

SDS number 847

#### Hazard statements in full

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
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.

