

# Safety Data Sheet

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

### 1.1 Product identifier

Product name : V415-D  
CAS number : Not applicable.

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

Material uses : Industrial applications: Ink for use in a continuous inkjet process.

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

Inkminic logo Technology (Guangzhou) Co., Ltd

### 1.4 Emergency telephone number

China Emergency telephone number:  
02032954560

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### GHS Classification

1) FLAMMABLE LIQUIDS - Category 2	Highly flammable liquid and vapor.
2) SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Causes serious eye damage.
3) SKIN SENSITIZATION - Category 1	May cause an allergic skin reaction.
4) SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	May cause drowsiness or dizziness.

Ingredients of unknown toxicity : Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 0%.

Ingredients of unknown ecotoxicity : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 13.7%

### 2.2 Label elements

#### GHS label elements



## Danger

Danger. Highly flammable liquid and vapor. Causes serious eye damage. May cause an allergic skin reaction. May cause drowsiness or dizziness. [Prevention] Wear eye or face protection. Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. [Response] IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. [Storage] None. [Disposal] None.

**Hazardous ingredients** : 1) butanone  
2) Rosin,fumarated  
3) Isopropyl alcohol

### 2.3 Other hazards

**Other hazards which do not result in classification** : None known.

**Additional guidance** : Avoid breathing vapor. IF INHALED: Call a POISON CENTER or physician if you feel unwell. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash before reuse. Keep container tightly closed. Store in a well-ventilated place.

## SECTION 3: Composition/information on ingredients

Substance/mixture	: Mixture		
Product/ingredient name	CAS #	%	GHS Classification
1) ethanol	64-17-5	50 - <60	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
2) butanone	78-93-3	13 - <20	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
3) $\alpha,\alpha$ -bis[4-(diethylamino)phenyl]-4-(ethylamino)naphthalene-1-methanol	1325-86-6	2 - <5	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5
4) Rosin, fumarated	65997-04-8	2 - <5	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1
5) Isopropyl alcohol	67-63-0	1 - <3	AQUATIC HAZARD (LONG-TERM) - Category 4 FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
6) benzyl alcohol	100-51-6	1 - <3	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4

*There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.*

*Occupational exposure limits, if available, are listed in Section 8.*

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Washout mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

##### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion** : Can cause central nervous system (CNS) depression.

##### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

Treat symptomatically. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
<b>5.3 Advice for firefighters</b>	
<b>Special protective actions for fire-fighters</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

<b>Small spill</b>	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
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Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limits

Product/ingredient name	Exposure limit values
ethanol	ACGIH TLV (United States, 1/2022). STEL: 1000 ppm 15 minutes.
butanone	GBZ 2.1 (China, 8/2019). PC-TWA: 300 mg/m <sup>3</sup> 8 hours. PC-STEL: 600 mg/m <sup>3</sup> 15 minutes.
Isopropyl alcohol	GBZ 2.1 (China, 8/2019). PC-TWA: 350 mg/m <sup>3</sup> 8 hours. PC-STEL: 700 mg/m <sup>3</sup> 15 minutes.

##### Biological exposure indices

No exposure indices known.

#### Recommended monitoring procedures

- Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### 8.2 Exposure controls

##### Appropriate engineering controls

- Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

##### Hygiene measures

- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Eye/face protection

- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Hand protection** : Recommended: EN374 A, EN374 B  
Maybe used (Short term exposure): Latex gloves. Nitrile gloves. Use gloves only once. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.  
Recommended: organic vapor filter (Type A)  
Additional information: In situations where misting or flying may occur, use appropriate certified respirators. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid.

**Color** : Violet.

**Odor** : Not available.

**Odor threshold** : Estimated.:  $\geq 6$  ppm (benzyl alcohol).

**pH** : Not applicable.

**Melting point/freezing point** : Estimated.:  $\leq -15$  °C (benzyl alcohol).

**Initial boiling point and boiling range** : Estimated.:  $\geq 78$  °C (ethanol).

**Flash point** : 13 °C [ASTM D 56]

**Evaporation rate (butyl acetate = 1)** : Estimated.:  $\leq 7$  [butyl acetate = 1] (butanone).

**Flammability (solid, gas)** : Not applicable. ( Liquid )

**Upper/lower flammability or explosive limits** : Estimated.:  $\geq 1$  % (benzyl alcohol).  
Estimated.:  $\leq 19$  % (ethanol).

**Vapor pressure** : Estimated.:  $\leq 11$  kPa (79 mm Hg) at 20°C (butanone).

**Vapor density** : Estimated.:  $\geq 1.6$  [Air = 1] (ethanol).

**Relative density (Water = 1)** : 0.845 [OECD 109]

**Solubility(ies)** : Not available.

**Partition coefficient: n-octanol/water** : Not applicable.

**Auto-ignition temperature** : Estimated.:  $\geq 404$  °C (butanone).

**Decomposition temperature** : Thermally stable.

**Viscosity** : Not available.

**Explosive properties** : Not applicable. Not classified.

**Oxidizing properties** : Not applicable. Not classified.

**Particle characteristics**

**Median particle size** : Not applicable.

### 9.2 Other information

**Volatility (w/w)** : 81 %.  
**VOC Volatility (w/w)** : 80 %.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

### 10.5 Incompatible materials

Reactive or incompatible with the following materials:  
 oxidizing materials

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit	>117 mg/l >15800 mg/kg	4 hours
butanone	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit - Male	10470 mg/kg 23.5 mg/l >8000 mg/kg	-
$\alpha,\alpha$ -bis[4-(diethylamino)phenyl]-4-(ethylamino)naphthalene-1-methanol	LD50 Dermal	Rat	3460 mg/kg	-
Rosin, fumarated	LD50 Oral	Rabbit	>2000 mg/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor LD50 Dermal	Rat Rabbit	525 mg/kg 12.9 g/kg	-
benzyl alcohol	LD50 Oral LC50 Inhalation Dusts and mists	Rat Rabbit	5.84 g/kg >5.4 mg/l	6 hours
	LD50 Oral	Rat	1620 mg/kg	4 hours
	LDLo Dermal	Rabbit	>2000 mg/kg	-

**Conclusion/Summary** : Not classified. No known significant effects or critical hazards.

#### Acute toxicity estimates

Route	ATE value
Oral Dermal Inhalation (vapors)	9669.05 mg/kg 52609.43 mg/kg 432.89 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Irritant Skin - Primary dermal irritation index (PDII)	Rabbit Rabbit	- 0	- 4 hours	21 days 14 days

#### **Conclusion/Summary**

**Skin** : Not classified. No known significant effects or critical hazards.

**Eyes** : Causes serious eye damage.  
**Respiratory** : Not classified. No known significant effects or critical hazards.

#### Sensitization

Product/ingredient name	Route of exposure	Species	Result
ethanol		Rat	Not sensitizing
butanone	Respiratory skin skin	Mouse Guinea pig	Not sensitizing Not sensitizing Not sensitizing

#### Conclusion/Summary

**Skin** : May cause an allergic skin reaction.  
**Respiratory** : Not classified. No known significant effects or critical hazards.

#### Mutagenicity

Product/ingredient name	Test	Experiment	Result
ethanol	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative

#### Conclusion/Summary

: Not classified. No known significant effects or critical hazards.

#### Carcinogenicity

#### Conclusion/Summary

: Not classified. No known significant effects or critical hazards.

#### Reproductive toxicity

#### Conclusion/Summary

: Not classified. No known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
butanone	Category 3	-	Narcotic effects
Isopropyl alcohol	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Not classified. No known significant effects or critical hazards.

#### Aspiration hazard

#### Conclusion/Summary

: Not classified. No known significant effects or critical hazards.

#### Potential chronic health effects, Other

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	Sub-chronic NOAEL Oral	Rat	1730 mg/kg	90 days

#### Conclusion/Summary

: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 275 mg/l Fresh water Acute LC50 5012 mg/l Fresh water Acute LC50 11200 mg/l Fresh water Chronic EC10 11.5 mg/l Fresh water Chronic NOEC 79 mg/l Marine water	Algae - <i>Chlorella vulgaris</i> Daphnia - <i>Ceriodaphnia dubia</i> Fish - <i>oncorhynchus mykiss</i> Algae - <i>Chlorella vulgaris</i> Crustaceans - <i>Palaemonetes pugio</i>	72 hours 48 hours 24 hours 72 hours 12 days
butanone	Chronic NOEC 9.6 mg/l Chronic NOEC 250 mg/l Fresh water Acute EC50 2029 mg/l Fresh water	Daphnia - <i>daphnia magna</i> Fish - <i>Danio</i> - Embryo Algae - <i>Pseudokirchnerella subcapitata</i>	10 days 120 hours 96 hours
Isopropyl alcohol	Acute EC50 308 mg/l Fresh water Acute LC50 2993 mg/l Fresh water Chronic NOEC 1240 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Pimephales promelas</i> Algae - <i>Pseudokirchnerella subcapitata</i>	48 hours 96 hours 96 hours
benzyl alcohol	Acute EC50 >1800 mg/l Fresh water Acute LC50 9640000 µg/l Fresh water Chronic LOAEL 1800 mg/l Fresh water Acute EC50 770 mg/l Fresh water	Algae - <i>Scenedesmus quadricauda</i> Fish - <i>Pimephales promelas</i> Algae - <i>Scenedesmus quadricauda</i> Algae - <i>Pseudokirchnerella subcapitata</i>	7 days 96 hours 7 days 72 hours
	Acute EC50 230 mg/l Fresh water Acute LC50 460000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Pimephales promelas</i>	48 hours 96 hours

	Chronic NOEC 310 mg/l Fresh water Chronic NOEC 51 mg/l Fresh water	Juvenile (Fledgling, Hatchling, Weanling) Algae - <i>Pseudokirchnerella subcapitata</i> Daphnia - <i>Daphnia magna</i>	72 hours 21 days
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**Conclusion/Summary** : Not available.

## 12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily
butanone	-	-	Readily
Rosin, fumarated	-	-	Not readily
Isopropyl alcohol	-	-	Readily
benzyl alcohol	-	-	Readily

**Conclusion/Summary** : Not available.

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
ethanol	-0.35	-	Low
butanone	0.3	-	Low
Rosin, fumarated	2.7	-	Low
Isopropyl alcohol	0.05	-	Low
benzyl alcohol	0.87	-	Low

## 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

#### Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### Packaging

#### Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### Special precautions

: None.

## SECTION 14: Transport information

	UN	IMDG	IATA	China
14.1 UN number	UN1210	UN1210	UN1210	UN1210
14.2 UN proper shipping name	Printing Ink	Printing Ink	Printing Ink	Printing Ink
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

### 14.6 Special precautions for user

No special measures required.

### 14.7 Transport in bulk according to IMO instruments

Not available.

## SECTION 15: Regulatory information

**Tariff Code - harmonized system** : 3215.19 Printing ink: Other.  
USA ...90.60  
EU ...10

Chemical Weapons Convention List Schedule I Chemicals	Chemical Weapons Convention List Schedule II Chemicals	Chemical Weapons Convention List Schedule III Chemicals
Not listed	Not listed	Not listed

## SECTION 16: Other information

### Revision comments

:  Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

- : ATE = Acute Toxicity Estimate
- : BCF = Bioconcentration Factor
- : GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- : IATA = International Air Transport Association
- : IBC = Intermediate Bulk Container
- : IMDG = International Maritime Dangerous Goods
- : LogPow = logarithm of the octanol/water partition coefficient
- : MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- : UN = United Nations

### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

