



# Material Safety Datasheet

Issue date 30-Jun-2015

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product Identifier

**Product name** IJ3500-10 CYAN

### Other means of identification

**H- Product code** 013478  
**E- Product code** S6082247-LOKW2LBE-LOKW2LBE  
**Single Substance or Mixture** mixture  
**UN number** Not applicable  
**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Ink jet ink (solvent-based)  
**Uses advised against** No information available

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

**Company Name**  
S.I.D Signs International Distributor Corp.  
7956 NW 14th Street Miami, FL 33126  
(305) 715-0017 **Emergency telephone**

## 2. Hazards Identification

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Flammable Liquids	Category 4

## Label Elements

### EMERGENCY OVERVIEW

#### DANGER

##### HARMFUL IF INHALED

Causes serious eye irritation

Causes damage to organs

May cause damage to organs through prolonged or repeated exposure

Combustible liquid

#### Pictogram



**appearance** No information available

**Physical state** liquid

**ODR** slight odor

#### Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

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

#### Precautionary Statements - Response

Specific treatment

IF exposed: Call a POISON CENTER or doctor/physician

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### OTHER INFORMATION

- MAY BE HARMFUL IF SWALLOWED
- May be harmful in contact with skin
- 65.1% of the mixture consists of ingredient(s) of unknown toxicity

### 3. Composition/information on Ingredients

**Ingredients contributing to the classification of the mixture, etc.**

Chemical name	CAS No	weight-%	Trade secret	EC No
Diethylene glycol diethyl ether	112-36-7	40-50	*	203-963-7
Acetate, 2-butoxyethyl	112-07-2	20-30	*	203-933-3
Propylene carbonate	108-32-7	10-20	*	203-572-1
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	5-10	*	-
Phthalocyanine blue	147-14-8	1-5	*	205-685-1

#### 4. First aid measures

**FIRST AID MEASURES**

<b>General advice</b>	Do not breathe dust/fume/gas/mist/vapors/spray Do not get in eyes, on skin, or on clothing
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes Get medical attention if irritation develops and persists
<b>inhalation</b>	If breathing is irregular or stopped, administer artificial respiration Seek immediate medical attention/advice IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell
<b>INGESTION</b>	Get medical attention Clean mouth with water

**Most important symptoms and effects, both acute and delayed****Indication of any immediate medical attention and special treatment needed**

#### 5. Fire-fighting measures

<b><u>Suitable extinguishing media</u></b>	CO2, dry chemical, dry sand, alcohol-resistant foam, mist of alkali salts water Move containers from fire area if you can do it without risk Use extinguishing measures that are appropriate to local circumstances and the surrounding environment Remove combustible materials from their surroundings immediately
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire
<b><u>Explosion data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	May be ignited by heat, sparks or flames
<b>Sensitivity to Static Discharge</b>	May be ignited by heat, sparks or flames
<b>Flammable properties</b>	May re-ignite after fire is extinguished Flammable/combustible material
<b>Special Extinguishing Media</b>	Cool container with water spray

**Special protective equipment for fire-fighters** Use personal protective equipment as required  
In the event of fire and/or explosion do not breathe fumes  
Special protective equipment for fire-fighters

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Stay upwind  
Evacuate personnel to safe areas  
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)  
Use personal protective equipment as required  
Avoid contact with skin, eyes and inhalation of vapors  
In the case of vapor formation use a respirator with filter model  
In case of fire: Stop leak if safe to do so  
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing  
Ensure adequate ventilation, especially in confined areas  
Wash thoroughly after handling

**OTHER INFORMATION** Ventilate the area

### Environmental Precautions

**Environmental Precautions** See Section 12 for additional Ecological Information  
Dispose of contents/container to an approved waste disposal plant  
Do not flush into surface water or sanitary sewer system  
Avoid release to the environment  
Collect spillage

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so

**Methods for cleaning up** Soak up with inert absorbent material  
Dam up

## 7. Handling and Storage

### Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes or clothing  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use personal protection recommended in Section 8  
Use only in well-ventilated areas  
Burn or dispose of the wiping cloths used to clean up the product at once  
Wash contaminated clothing before reuse  
Wash hands thoroughly and gargle after handling

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place  
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)  
Incompatible with oxidizing agents  
The product shall be stored in the original containers/vessels

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetate, 2-butoxyethyl	TWA: 20 ppm	-	TWA: 5 ppm TWA: 33 mg/m <sup>3</sup>
Phthalocyanine blue	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	-	IDLH: 100 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Cu dust and mist

*NIOSH IDLH* Immediately Dangerous to Life or Health

### Appropriate engineering controls

**Engineering controls**                      Ensure adequate ventilation, especially in confined areas  
 Showers  
 Eyewash stations  
 Ventilation systems

### Individual protection measures, such as personal protective equipment

**Respiratory protection**                      In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit

**Hand protection**                              Wear protective gloves

**Skin and Body Protection**                      Protective shoes or boots

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>ODR</b>	slight odor
<b>appearance</b>	No information available	<b>odor threshold</b>	No information available
<b>color</b>	colored		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks Flash point measuring method</u></b>	
<b>pH</b>	Not applicable		
<b>Melting point/freezing point</b>	no data available		
<b>Boiling point/boiling range</b>	no data available	No information available	
<b>Flash Point</b>	>70°C	Seta Closed Cup	
<b>Evaporation Rate</b>	no data available	No information available	
<b>Combustibility</b>	no data available		
<b>Flammability Limits in Air</b>			
<b>Upper flammability limits</b>	no data available		
<b>Lower Flammability Limit</b>	no data available		
<b>vapor pressure</b>	no data available	No information available	
<b>Vapor density</b>	no data available	No information available	
<b>Specific gravity</b>	0.9-1.1		
<b>solubility(ies)</b>			
<b>Water solubility</b>	Immiscible in water		
<b>Organic Solvent Solubility</b>	soluble in organic solvents		
<b>Partition coefficient</b>	no data available	No information available	
<b>Autoignition temperature</b>	no data available	No information available	
<b>decomposition temperature</b>	no data available	No information available	
<b>Kinematic viscosity</b>	no data available		

Chemical name	Boiling point °C	density	Vapor pressure	Vapor density	Flash Point	Autoignition temperature
Diethylene glycol diethyl ether	188 °C	-	0.5 mmHg at 25 °C	-	82 °C open cup	-
Acetate, 2-butoxyethyl	184 - 195 °C	0.935 - 0.942 g/cm <sup>3</sup> at 20 °C	0.31 hPa at 20 °C	5.5	71 °C	280 °C
Propylene carbonate	241.9 °C	1.204 g/cm <sup>3</sup> at 20 °C	0.03 mmHg at 20 °C	3.52	135 °C open cup	510 °C
Phthalocyanine blue	-	-	0.0004 hPa at 384 °C	-	-	>350 °C

## 10. Stability and Reactivity

### reactivity

#### Chemical stability

**stability** Stable under normal conditions

#### Possibility of hazardous reactions

#### Conditions to Avoid

#### Incompatible Materials

**Incompatible Materials** Reference to other sections; 7

#### Hazardous decomposition products

**Hazardous decomposition products** May emit toxic fumes under fire conditions

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames

## 11. Toxicological Information

### Information on likely routes of exposure

**Product Information** no data available

**inhalation** Reference to other sections; 4  
**Eye Contact** Reference to other sections; 4  
**Skin contact** Reference to other sections; 4  
**INGESTION** Reference to other sections; 4

Chemical name	Oral LD50	dermal LD50	Inhalation LC50	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP] ANNEX VI Table3.1 / Other	Japan GHS Classification
Diethylene glycol diethyl ether	-	-	-	-	Eye Irrit. 2A (H319)	Eye Irrit. 2A Flam. Liq. 4
Acetate, 2-butoxyethyl	1600 mg/kg ( Rat )	1480 mg/kg ( Rabbit )	-	Xn; R20/21	Acute Tox. 4 (H312) Acute Tox. 4 (H332) Acute Tox. 4 (H302) STOT SE 1 (H370) STOT SE 2 (H371) STOT RE 2 (H373) Aquatic Acute 3 (H402)	Aquatic Acute 3 STOT RE 2 STOT SE 2 STOT SE 1 Acute Tox. Der. 4 Flam. Liq. 4
Propylene carbonate	29000 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	-	Xi; R36	Eye Irrit. 2 (H319)	Eye Irrit. 2A
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	-	-	-	-	STOT SE 3 (H336)	STOT SE 3 Flam. Liq. 4

#### GHS/CLP Classification Note:

Acute Tox. Der. :Acute toxicity - Dermal, Acute Tox. Inh. (D/M) :Acute toxicity - Inhalation - Dusts and Mists, Acute Tox. Inh. (Gas) :Acute toxicity - Inhalation - Gases, Acute Tox. Inh. (Vap) :Acute toxicity - Inhalation - Vapours, Acute Tox. Oral :Acute toxicity - Oral, Aquatic Acute :Acute Hazardous to the aquatic environment, Aquatic Chronic :Chronic Hazardous to the aquatic environment, Asp. Tox. :Aspiration hazard, Carc. :Carcinogenicity, Expl. :Explosives, Eye Dam. :Serious eye damage, Eye Irrit. :Eye irritation, Flam. Gas :Flammable gases (including chemically unstable gases), Flam. Liq. :Flammable liquids, Flam. Solid :Flammable solids, Lact. :Effects on or via lactation, Met. Corr. :Corrosive to metals, Muta. :Germ cell mutagenicity, Org. Perox. :Organic peroxides, Ox. Gas :Oxidizing gases, Ox. Liq. :Oxidizing liquids, Ox. Sol. :Oxidizing solids, Press. Gas :Gases under pressure, Pyr. Liq. :Pyrophoric liquids, Pyr. Sol. :Pyrophoric solids, Repr. :Reproductive toxicity, Resp. Sens. :Respiratory sensitization, Self-heat. :Self-heating substances and mixtures, Self-react. :Self-reactive substances and mixtures, Skin Corr. :Skin corrosion, Skin Irrit. :Skin irritation, Skin Sens. :Skin sensitization, STOT RE :Specific target organ toxicity – Repeated exposure, STOT SE :Specific target organ toxicity – Single exposure, Water-react. :Substances and mixtures which, in contact with water emit flammable gases

#### Information on toxicological effects

**Symptoms** No information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**sensitization** No information available

**Germ Cell Mutagenicity** No information available

#### **Carcinogenicity**

Chemical name	ACGIH	IARC	NTP	OSHA
Acetate, 2-butoxyethyl	A3	-	-	-

**ACGIH Note:** A1:Confirmed Human Carcinogen, A2:Suspected Human Carcinogen, A3:Confirmed Animal Carcinogen with Unknown Relevance to Humans

**IARC Note:** Group 1:Carcinogenic to humans, Group 2A:Probably carcinogenic to humans, Group 2B:Possibly carcinogenic to humans, Group 3:Not classifiable as to carcinogenicity in humans

**NTP Note:** Known: (Known to be Human Carcinogens) , Reasonably Anticipated: (Reasonably Anticipated to be Human Carcinogens)

**OSHA Note:** X:Applicable

**Reproductive Toxicity** No information available

**STOT - single exposure** No information available

**STOT - repeated exposure** No information available

**Aspiration Hazard** No information available

**Numerical measures of toxicity - Product Information**

**Unknown acute toxicity** 65.1% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 2210 mg/kg

**ATEmix (dermal)** 2039 mg/kg

**ATEmix (inhalation-dust/mist)** 2.1 mg/l

**12. Ecological Information**

**ecotoxicity**

75.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Persistence and degradability** No information available

**Bioaccumulation** No information available

Chemical name	Partition coefficient
Acetate, 2-butoxyethyl	1.51
Propylene carbonate	0.48
Phthalocyanine blue	6.6

**Other adverse effects** No information available

**13. Disposal Considerations**

**Waste treatment methods**

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal

**US EPA Waste Number** U162 U239

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical name	California Hazardous Waste Status
Phthalocyanine blue	Toxic

**Waste from Residues / Unused Products** avoid  
Disposal should be in accordance with applicable regional, national and local laws and regulations

**OTHER INFORMATION** Store in a tightly sealed drum to prevent the spillage of the content

**14. Transport Information**



Containers/vessels must be leakage-free. Loading must be done to prevent containers from falling, dropping down and being damaged  
Take necessary steps to prevent collapse

**UN number** Not applicable  
**Packing group** Not applicable  
**ERG Code** 133  
**Proper shipping name** Not applicable

**DOT**  
**UN number** Not regulated  
**Packing group** Not applicable

**TDG**  
**UN number** Not regulated  
**Packing group** Not applicable

**MEX**  
**UN number** Not regulated  
**Packing group** Not applicable

**ICAO (air)**  
**UN number** Not regulated  
**Packing group** Not applicable

**IATA**  
**UN number** Not regulated  
**Packing group** Not applicable

**IMDG**  
**UN number** Not regulated  
**Packing group** Not applicable

**RID**  
**UN number** Not regulated  
**Packing group** Not applicable

**ADR**  
**UN number** Not regulated  
**Packing group** Not applicable

**ADN**  
**UN number** Not regulated  
**Packing group** Not applicable

## 15. Regulatory information

### International Inventories

TSCA

#### TSCA SNUR's Component Information

Component	U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)
Diethylene glycol diethyl ether 112-36-7 ( 40-50 )	76 FR 40850, July 12, 2011 Proposed rule

### US Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	weight-%	SARA 313 - Threshold Values %
Diethylene glycol diethyl ether	112-36-7	40-50	1.0
Acetate, 2-butoxyethyl	112-07-2	20-30	1.0
Propylene carbonate	108-32-7	10-20	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	5-10	-
Phthalocyanine blue	147-14-8	1-5	1.0

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CAS No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diethylene glycol diethyl ether	112-36-7	-	-	-	-
Acetate, 2-butoxyethyl	112-07-2	-	-	-	-
Propylene carbonate	108-32-7	-	-	-	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	-	-	-	-
Phthalocyanine blue	147-14-8	-	X	-	-

**CERCLA**

Does not apply

Chemical name	CAS No	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Diethylene glycol diethyl ether	112-36-7	-	-	-
Acetate, 2-butoxyethyl	112-07-2	-	-	-
Propylene carbonate	108-32-7	-	-	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	-	-	-
Phthalocyanine blue	147-14-8	-	-	-

**US State Regulations****California Proposition 65**

Does not apply

Chemical name	CAS No	California Proposition 65
Diethylene glycol diethyl ether	112-36-7	-
Acetate, 2-butoxyethyl	112-07-2	-
Propylene carbonate	108-32-7	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	-
Phthalocyanine blue	147-14-8	-

**U.S. State Right-to-Know Regulations****US State Regulations**

Chemical name	CAS No	New Jersey	Massachusetts	Pennsylvania
Diethylene glycol diethyl ether	112-36-7	X	-	X
Acetate, 2-butoxyethyl	112-07-2	X	-	X
Propylene carbonate	108-32-7	-	-	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	-	-	-
Phthalocyanine blue	147-14-8	X	-	X

**U.S. EPA Label information**

EPA Pesticide registration number Not applicable

**16. Other information**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	2	<b>flammability</b>	2	<b>Instability</b>	0	<b>Physical and chemical properties</b>	-
<b><u>HMIS</u></b>	<b>Health Hazards</b>	2	<b>flammability</b>	2	<b>Physical Hazards</b>	0	<b>PERSONAL PROTECTION</b>	H

Issue date 30-Jun-2015 (DD-MMM-YYYY)

**Revision note**

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text