



Material Safety Datasheet

Issue date 30-Jun-2015

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

Product Identifier

Product name IJ3500-40 BLACK

Other means of identification

H- Product code 013507

E- Product code S6082247-LOKX00H0-LOKX00H0

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 1
Flammable Liquids	Category 4

Label Elements

EMERGENCY OVERVIEW

DANGER

HARMFUL IF INHALED
Causes serious eye irritation
Causes damage to organs
Causes 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 CO₂, 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	*	-
Carbon black	1333-86-4	1-5	*	215-609-9

4. First aid measures

FIRST AID MEASURES

General advice	Do not breathe dust/fume/gas/mist/vapors/spray Do not get in eyes, on skin, or on clothing
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes Get medical attention if irritation develops and persists
inhalation	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
INGESTION	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

Suitable extinguishing media 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

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Explosion data

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge

May be ignited by heat, sparks or flames
May be ignited by heat, sparks or flames

Flammable properties

May re-ignite after fire is extinguished
Flammable/combustible material

Special Extinguishing Media

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 ³
Carbon black	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

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

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Flash point measuring method</u>
Physical state		liquid	
appearance	No information available	ODR	slight odor
color	colored	odor threshold	No information available
pH	Not applicable		
Melting point/freezing point	no data available		
Boiling point/boiling range	no data available	No information available	
Flash Point	> 70°C	Seta Closed Cup	
Evaporation Rate	no data available	No information available	
Combustibility	no data available		
Flammability Limits in Air			
Upper flammability limits	no data available		
Lower Flammability Limit	no data available		
vapor pressure	no data available	No information available	
Vapor density	no data available	No information available	
Specific gravity	0.9-1.1		
solubility(ies)			
Water solubility	Immiscible in water		
Organic Solvent Solubility	soluble in organic solvents		
Partition coefficient	no data available	No information available	
Autoignition temperature	no data available	No information available	
decomposition temperature	no data available	No information available	
Kinematic viscosity	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/cm3 at 20 °C	0.31 hPa at 20 °C	5.5	71 °C	280 °C
Propylene carbonate	241.9 °C	1.204 g/cm3 at 20 °C	0.03 mmHg at 20 °C	3.52	135 °C open cup	510 °C
Carbon black	-	1.86 g/cm3	-	-	-	-

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
Eye Contact
Skin contact
INGESTION

Reference to other sections; 4
Reference to other sections; 4
Reference to other sections; 4
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
Carbon black	-	-	-	-	STOT RE 1 (H372)	STOT RE 1 Self-heat. 1 Self-heat. 2

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	-	-	-
Carbon black	A3	Group 2B	-	X

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) 2209 mg/kg
 ATEmix (dermal) 2038 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

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 U022 U162 U239

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

Waste from Residues / Unused Products aviod
 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
<u>DOT</u>	Not regulated
UN number	Not applicable
Packing group	Not applicable
<u>TDG</u>	Not regulated
UN number	Not applicable
Packing group	Not applicable
<u>MEX</u>	Not regulated
UN number	Not applicable
Packing group	Not applicable
<u>ICAO (air)</u>	Not regulated
UN number	Not applicable
Packing group	Not applicable
<u>IATA</u>	Not regulated
UN number	Not applicable
Packing group	Not applicable
<u>IMDG</u>	Not regulated
UN number	Not applicable
Packing group	Not applicable
<u>RID</u>	Not regulated
UN number	Not applicable
Packing group	Not applicable
<u>ADR</u>	Not regulated
UN number	Not applicable
Packing group	Not applicable
<u>ADN</u>	Not regulated
UN number	Not applicable
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	-
Carbon black	1333-86-4	1-5	-

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Does not apply

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	-	-	-	-
Carbon black	1333-86-4	-	-	-	-

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	-	-	-
Carbon black	1333-86-4	-	-	-

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

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	-
Carbon black	1333-86-4	Carcinogen

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	-	-	-
Carbon black	1333-86-4	X	X	X

U.S. EPA Label information

EPA Pesticide registration number

Not applicable

16. Other information

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