

SAFETY DATA SHEET

Preparation Date 27-Jun-2019 Revision Date 27-Jun-2019 Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product DescriptionIDS-17213-KLED BlackProduct Identifier3.865.4.017213Product ClassAcrylate Based Inkjet ink

Other means of identification

Recommended use of the chemical and restrictions on use

Intended Use Printing Ink

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Innovative Digital Systems 2000 Innovation Drive Indian Trail, NC, 28079 USA

E-mail address Company sales@ids-digital.com

Phone Number 704-628-7679

Emergency telephone number

For Transportation Emergencies within the U.S. Call CHEMTREC (800) 424-9300 For Canadian Transportation Emergencies Call CANUTEC (613) 996-6666

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory status

Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 1	
Skin sensitization		
	Category 1	
Reproductive toxicity	Category 2	
Specific target organ toxicity (repeated exposure)	Category 1	

Label elements

Emergency Overview

Danger

Hazard Statements

Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure



Appearance Product Specific

Physical state Low Viscosity Liquid

Odor Acrylic

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

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

Do not eat, drink or smoke when using this product

Precautionary Statements - 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 doctor/physician

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other information

- · Toxic to aquatic life
- Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	Trade Secret
1,6-Hexanediol diacrylate	13048-33-4	25 - 40	*
Carbon Black	1333-86-4	1 - 5	*
Dipentaerythritol hexacrylate	1384855-91-7	5 - 10	*
Trimethylolpropane triacrylate	15625-89-5	5 - 10	*
Vinyl caprolcatam	2235-00-9	10 - 25	*
Dipropylene glycol diacrylate	57472-68-1	10 - 25	*
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	1 - 5	*
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.`-(2,2-dimethyl-1,3-prop	84170-74-1	1 - 5	*
anediyl)bis[.omega[(1-oxo-2-propenyl			
)oxy] -			

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* The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First Aid Measures

General advice Take off contaminated clothing and shoes immediately. If symptoms persist, call a

physician. Do not get in eyes, on skin, or on clothing. Show this safety data sheet to the

doctor in attendance.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off with soap and water. Remove contaminated clothing. If irritation develops, get

medical attention.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician

if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause skin sensitization, irritation or dermatitis.

Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Water spray. Carbon dioxide (CO2). Dry chemical.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Hazardous polymerization may occur.

Explosion Data

Sensitivity to mechanical impact No. Sensitivity to static discharge No.

Advice for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Do not flush into surface water or sanitary sewer system. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. The product should not be allowed to enter drains, water courses or the soil. Construct a dike to prevent spreading.

Methods and material for containment and cleaning up

Clean contaminated surface thoroughly. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities

Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep at temperature not exceeding 40°C.

Incompatible materials Strong oxidizing agents. Polymerization initiators. Peroxides. Carbon steel, copper and

copper alloys.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

If this product contains any hazardous materials with occupational exposure limits Exposure guidelines

established by the region specific regulatory bodies, the information is shown directly below

this statement.

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with side-shields

Skin and body protection Wear protective nitrile rubber gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General industrial hygiene practice Handle in accordance with good industrial hygiene and safety practice. Wear suitable

gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Low Viscosity Liquid Physical state Product Specific **Appearance**

Acrylic Odor

No information available Color **Odor Threshold** No information available

Not applicable Melting point / Freezing point Not available

Boiling point / boiling range Flash point

> 94 °C Method Calculated

Evaporation rate No information available

Upper flammability limit:

Flammability Limit in Air

Not applicable Lower flammability limit: Not applicable

Vapor pressure No information available

Vapor densityNot availableSpecific Gravity1.1032Water solubilityInsoluble

Solubility in other solvents

No information available

Partition coefficientNot availableAutoignition temperatureNot availableDecomposition temperatureNot available

Kinematic viscosity

No information available

Dynamic viscosity Not available

Explosive propertiesNo information available **Oxidizing Properties**No information available

Other information

 Weight % VOC
 0.186

 Weight % Solids
 99.814

 Density (US)
 9.2063

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing. Hazardous polymerization may occur upon depletion of inhibitor - may cause heat and pressure build-up in closed containers.

Conditions to avoid

Temperatures above 40°C. Protect from light. Loss of air. Loss of inhibitor. Container may rupture on heating.

Incompatible materials

Strong oxidizing agents. Polymerization initiators. Peroxides. Carbon steel, copper and copper alloys.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information The product itself has not been tested.

Inhalation No data available.

Eye contact No data available.

Skin contact No data available.

Ingestion No data available.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Trimethylolpropane triacrylate 15625-89-5	5190 mg/kg (Rat)	5000 mg/kg (Rabbit)	

Information on toxicological effects

Symptoms No information available.

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

Respiratory or skin sensitization

Germ cell mutagenicity

No information available. No information available.

Carcinogenicity

If any carcinogenic components are present, a table below will indicate which agencies

have listed the substance as a carcinogen.

Reproductive toxicity

Not available.

No information available.

STOT - single exposure STOT - repeated exposure

No information available.

Chronic toxicity

Repeated contact may cause allergic reactions in very susceptible persons.

Aspiration hazard No information available.

Numerical measures of toxicity

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

ATEmix (oral) 3333 Mg/kg ATEmix (inhalation-gas) 30000 mg/L

12. ECOLOGICAL INFORMATION

Toxicity

Harmful to aquatic life

Persistence and degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

Mobility in Environmental Media

Available information on the mobility of specific components is listed below.

Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste disposal methods

In accordance with local, state/provincial and national regulations.

Disposal of contaminated packaging

In accordance with local and national regulations. Empty containers should be taken to local recyclers for disposal.

US EPA Waste Number: Consult 40 CFR Part 261

14. TRANSPORT INFORMATION

DOT Refer to Bill of Lading or container label for DOT or other transportation hazard

classification, if any.

TDG

ICAO

<u>IATA</u>

IMDG

15. REGULATORY INFORMATION

<u>Inventories</u>

TSCA Complies DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA Section 313 Toxic Chemical List

This product does not contain any components reportable under Section 313 (40 CFR 372).

SARA 311/312 Hazardous Categorization

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactivity HazardYes

CERCLA

US State Regulations

California Prop. 65

This product does not contain any Califormia Prop 65 ingredients at levels that require consumer warning

State Right-to-Know

U.S. EPA Label information

EPA Pesticide registration number Not applicable

Canada

All components of this product are included on the DSL or NDSL or are not required to be listed.

This product has been classified according to GHS hazard criteria and the SDS contains all of the information required by the HPA.

16. OTHER INFORMATION

NFPA Health 2 Flammability 1 Reactivity 2

Prepared by: Responsible Department

Preparation Date 27-Jun-2019
Revision Date 27-Jun-2019

Reason for revision: New/Revised Formula

Disclaimer

The information provided in this 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.

End of Safety Data Sheet