SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006, Annex II,
as amended by Regulation (EU) 2020/878

Issue date: Jun 09th 2015
Revision date: Aug 21st 2025

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	**HydraJET® 2020K**
Synonym(s)	Black ink
Registration number REACH	Not applicable (mixture)

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

Recommended use	Ink for inkjet printing

1.3. Details of the supplier of the safety data sheet

Company identification	**MYLAN GROUP** Long Duc Industrial Park, Long Duc Ward, Vinh Long Province, Vietnam Tel. +84-294-3846-997 E-mail address: info@mylangroup.com Website: www.mylangroup.com

1.4. Emergency telephone number

Name	Address	Telephone	Website
Poison control center - Bach Mai Hospital	Bach Mai poison control center, A9, 78 Giai Phong Street, Dong Da, Ha noi, Viet Nam	+84 (0)243 869 3731	www.chongdoc.org.vn

Hours of operation: 8.00-17.00 Monday-Friday

Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP):

Not a hazardous substance or mixture.

Additional Labelling

EUH210: Safety data sheet available on request.

2.3. Other hazards

PBT Substances	None

vPvB Substances:	None
Other hazards	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 3: Composition/information on ingredients

3.1. Substance No

3.2. Mixtures

Hazardous Components (Chemical Name)/ REACH Registration No.	CAS Number	EC Number	Concentration (%)	Classification
Water	7732-18-5	231-791-2	≤79	Not Classified
1,2 hexanediol	6920-22-5	230-029-6	<10	Eye Irrit. 2,H319
Acid Black 2	8005-03-6	616-852-7	≤6	Not Classified
Diethylene glycol	111-46-6	203-872-2	≤5	Acute Tox. 4: H302

Section 4: First-aid measures

4.1. Description of first aid measures

In case of:

Inhalation	Move person to fresh air immediately. If symptoms persist, get immediate medical attention.
Skin contact	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse. Get medical attention, if needed.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
Ingestion	Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice - Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2. Most important symptoms/ effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No special treatment needed, treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	sand, carbon dioxide (CO2) or dry chemical.
Unsuitable extinguishing media	Not available.

5.2. Special hazards arising from the substance or mixture

In case of fire, smoke and other combustion products may be formed, the inhalation of such combustion products can have serious adverse effects on health.

5.3. Advice for firefighters

Wear suitable protective suit and self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
(a) the wearing of suitable protective equipment (including personal protective equipment referred to under section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;
(b) removal of ignition sources, provision of sufficient ventilation, control of dust; and
(c) emergency procedures such as the need to evacuate the danger area or to consult an expert.
For personal protection see section 8.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Absorb or cover with dry earth, sand or other non-combustible material and transfer to sealable containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4. Reference to other sections

For further and detailed information see section 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling	**Advice on protection against fire and explosion** Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. **Hygiene measures** Change contaminated clothing. Wash hands after working with substance. For further precautions information see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.
7.3 Specific end uses	No specific uses are stipulated.

Section 8. Exposure controls/personal protection

8.1 Control parameters National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Notation	Identifier	TWA (ppm)	TWA (mg/m^3)	STEL (ppm)	STEL (mg/m^3)	Source
GB	Diethylene Glycol	111-46-6		WEL	23	101			EH40/ 2005
	1,2 hexanediol	6920-22-5	Data are not available						

Notation
STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
i Inhalable fraction
r Respirable fraction

Relevant DNELs/DMELs/PNECs and other threshold levels

- human health values

	End point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
1,2 hexanediol	DNEL	17.5 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
	DNEL	123 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Diethylene Glycol	DNEL	106 mg/kg	human, dermal	worker (industry)	chronic - systemic effects

- environmental values

	End point	Threshold level	Environmental compartment
Diethylene Glycol	PNEC	10 mg/l	freshwater
	PNEC	1 mg/l	marine water
	PNEC	10 mg/l	sewage treatment plant (STP)

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).
Eye wash fountain and emergency showers are recommended.

Skin and body protection

Protective suit, Safety shoes.

Hand protection

Wear appropriate chemical resistant gloves.

Respiratory protection

Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards

Not available.

General hygiene considerations

Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing.

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.
Launder contaminated clothing before reuse.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Liquid

Color	Black
Odor	Characteristic
Melting point/freezing point;	Not available.
Boiling point or initial boiling point and boiling range	>90°C
Flammability (solid, gas)	Not available.
Lower and upper explosion limit	Not available.
Flash point	>93.3°C (closed-cup)
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	9-10
Viscosity (cPs)	3.6-4.3 cPs at 25°C
Solubility(ies)	Soluble in water
Partition coefficient n-octanol/water (log value)	Not available.
Vapor pressure	Not available.
Density and/or relative density	Not available.
Relative vapour density	Not available.
Particle characteristics	Not available.
9.2 Other information	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	Not available.
10.2 Chemical stability	Stable at normal conditions.
10.3 Possibility of hazardous reactions	None known.
10.4 Conditions to avoid	Heat, flames and sparks.
10.5 Incompatible materials	Not available.
10.6 Hazardous decomposition products	Hazardous combustion products: see section 5

Section 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity value

Components	**Species**	**Test results**
1,2 hexanediol (6920-22-5)		
Oral (LD50)	Rat - male	5.339 - 6.470 mg/kg

Dermal (LD50)	Rat - female	6.166 mg/kg
Diethylene Glycol (CAS 111-46-6)		
Oral (LD50)	Rat (male and female)	500.1 mg/kg
Dermal (LD50)	Rabbit	11,890 mg/kg
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory or skin sensitisation	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity	Not available.	
Reproductive toxicity	Not available.	
STOT-single exposure;	Not available.	
STOT-repeated exposure;	Not available.	
Aspiration hazard	Not available.	

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

Section 12. Ecological information

12.1 Toxicity

Aquatic toxicity

Components		Species	Test Results
1,2 hexanediol (CAS 6920-22-5)			
Fish	LC50	Oncorhynchus mykiss (rainbow trout)	> 1,000 mg/l
Daphnia and other aquatic invertebrates	EC10	Freshwater algae	> 110 mg/L - 48h
Microorganisms	EC0	Activated sludge	>1000 mg/L – 3h
Diethylene Glycol (CAS 111-46-6)			
Fish	LC50	Pimephales promelas (fathead minnow)	75,200 mg/l - 96 h

12.2 Persistence and degradability	Data are not available.
12.3 Bioaccumulative potential	Does not significantly accumulate in organisms.
12.4 Mobility in soil	Data are not available.

12.5 Results of PBT and vPvB assessment	According to the results of its assessment, this substance is not a PBT or a vPvB
12.6 Endocrine disrupting properties	Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.
12.7 Other adverse effects	Data are not available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Product	Dispose of waste material in accordance with local, state and federal pollution regulations.
Contaminated packaging	When disposing of an empty container, dispose after removing contents materials completely. Only store in correctly labelled containers.

Section 14. Transport information

14.1 UN number

ADR/RID: -	AND: -	IMDG: -	IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods	AND: Not dangerous goods	IMDG: Not dangerous goods	IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -	AND: -	IMDG: -	IATA: -

14.4 Packing group

ADR/RID:-	AND: -	IMDG: -	IATA: -

14.5 Environmental hazards

ADR/RID: None	AND: None	IMDG: None	IATA: None

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

Section 15 - Regulatory Information

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

Vietnam National legislation	This material safety data sheet complies with the requirements of Vietnam National legislation as the followings: - Law on Chemicals (No. 06/2007/QH12) of The National Assembly dated November 21, 2007. - Decree No. 113/2017/ND-CP of The Government dated October 09, 2017, specifying, and providing guidelines for implementation of certain articles of the law on chemicals. - Decree No. 82/2022/ND-CP of The Government dated October 18, 2022, on amendments to some articles of Decree No. 113/2017/ND-CP

specifying and providing guidelines for implementation of certain articles of the Law on chemicals.
- Circular No. 32/2017/TT-BCT of Ministry of Industry and Trade dated December 28, 2017, specifying, and providing guidelines for implementation of certain articles of the Law on Chemicals and Decree 113/2017/ND-CP specifying and providing guidelines for implementation of certain articles of the Law on Chemicals.
- Circular No. 17/2022/TT-BCT of Ministry of Industry and Trade date October 27, 2022, on amendments to some articles of Circular No. 32/2017/TT-BCT on elaboration and provision of guidelines for implementation of certain articles of the Law on Chemicals and the Government's Decree No. 113/2017/ND-CP on elaboration and provision of guidelines for implementation of certain articles of The Law on Chemicals.
- Decree No. 161/2024/ND-CP of The Government dated December 18, 2024 on list of dangerous goods, transport of dangerous goods and procedures for issuance of licenses or certificates of completion of training programs for drivers or escorts transporting dangerous goods by road.
- National technical regulation code QCVN 05:2020/BCT on safety in production, commerce, use, storage, and transportation of hazardous chemicals.
- Circular No. 19/2024/TT-BCT of Ministry of Industry and Trade dated October 10, 2024 on promulation of Amendment 1:2024 QCVN 05:2020/BCT on safety in production, commerce, use, storage, and transportation of hazardous chemicals
- Decree No. 33/2024/ND-CP of The Government dated March 27, 2024, on implementing the convention on the prohibition of the development, production, stockpiling and use of chemical weapons and on their destruction (if any)
- Sale and purchase of toxic chemicals shall be recorded in accordance with Article 23 of the Law on Chemicals. The use of industrial precursor chemicals shall be prepared a logbook to monitor in accordance with regulations of Chapter V of the Law on Chemicals (if any).
- Chemical-related activities must comply with other relevant provisions of law.

EU legislation

This material safety data sheet complies with the requirements of Regulation (EC) No.
1907/2006.

Other regulations

National inventories	Status
U.S. TSCA Chemical Substance Inventory	Listed.
U.S. California The Proposition 65 List	Not Listed.
China Catalog of Hazardous Chemicals (2022)	Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Listed.
New Zealand Inventory of Chemicals (NZIoC)	Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Listed.
Vietnam National Chemical Inventory	Listed.
Canada Domestic Substances List (DSL)	Listed.

	Japan Existing and New Chemical Substances Inventory (ENCS)	Listed.
	Korea Existing Chemicals List (KECL)	Listed.
	Australian Inventory of Industrial Chemicals (AIIC)	Listed.

Guidance	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.
15.2. Chemical safety assessment	No chemical safety assessment has been carried out.

Section 16 - Other Information

Issue date	09-June-2015
Revision date	21-August-2025
Version #	5.2
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