

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

Issuing Date Aug 27, 2010

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name Inkfinity-NP4

Recommended Use Ink
Manufacturer:

ANSER CODING INC. (TAIWAN)
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2. HAZARDS IDENTIFICATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Classification

F;R11 - Xn;R68/20/21/22 - Xn;R20/21/22 - R52-53 - R52-53

For the full text of the R phrases mentioned in this Section, see Section 16

Product Label Symbols

F - Highly flammable
Xn - Harmful

Most Important Hazards

Highly flammable.

Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

General Hazards

May cause skin and eye irritation. May cause respiratory tract irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Ethyl alcohol	EEC No. 200-578-6	Not available	64-17-5	60 - 99	F;R11
Methyl alcohol	EEC No. 200-659-6	Not available	67-56-1	1 - 10	F;R11 T;R23/24/25 R39/23/24/25
Chromium Complex azo dye mixture		Not available	PROPRIETARY	1 - 5	N;R51/53

Note

Chromium Complex azo dye mixture does not contain Chromium (VI).

4. FIRST AID MEASURES

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact	Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth with water and afterwards drink plenty of water or milk. Call a physician or Poison Control Center immediately.
Inhalation	If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Protection of First-aiders	Remove all sources of ignition.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use: Water spray. Carbon dioxide (CO ₂). Dry chemical. Alcohol-resistant foam.
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Special Exposure Hazards Arising from the Substance/Preparation Including Combustion Products and Gases	May be ignited by heat, sparks or flames. Flash back possible over considerable distance.
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6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Personal Precautions	Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. All equipment used when handling the product must be grounded.

7. HANDLING AND STORAGE

Handling	Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.
Storage	Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Ethyl alcohol 64-17-5		TWA: 1000 ppm TWA: 1920 mg/m ³	VME: 1000 ppm VME: 1900 mg/m ³ VLCT: 5000 ppm VLCT: 9500 mg/m ³	VLA-ED: 1000 ppm VLA-ED: 1910 mg/m ³ VLA-ED	MAK: 500 ppm MAK: 960 mg/m ³ Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m ³ TWA: 500 ppm TWA: 960 mg/m ³
Methyl alcohol 67-56-1	TWA: 260 mg/m ³ TWA: 200 ppm	STEL: 250 ppm STEL: 333 mg/m ³ TWA: 200 ppm TWA: 266 mg/m ³ Skin	VME: 200 ppm VME: 260 mg/m ³ VLCT: 1000 ppm VLCT: 1300 mg/m ³	S* VLA-ED: 200 ppm VLA-ED: 266 mg/m ³ VLA-ED	MAK: 200 ppm MAK: 270 mg/m ³ Ceiling / Peak: 800 ppm Ceiling / Peak: 1080 mg/m ³ TWA: 200 ppm TWA: 270 mg/m ³
Chromium Complex azo dye mixture PROPRIETARY					

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Ethyl alcohol 64-17-5	STEL 2000 ppm STEL: 3800 mg/m ³ STEL MAK: 1000 ppm MAK; 1900 mg/m ³ MAK	STEL: 1000 ppm STEL: 1920 mg/m ³	NDS: 1900 mg/m ³	TWA: 500 ppm TWA: 950 mg/m ³ STEL: 1187.5 mg/m ³ STEL: 625 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³
Methyl alcohol 67-56-1		STEL: 800 ppm STEL: 1040 mg/m ³	NDSCh: 300 mg/m ³ NDS: 100 mg/m ³ Skin	TWA: 100 ppm TWA: 130 mg/m ³ Skin STEL: 150 ppm STEL: 162.5 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 310 mg/m ³ Skin
Chromium Complex azo dye mixture PROPRIETARY					

Occupational Exposure Controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

Personal Protective Equipment

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves.

Skin and Body Protection

Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**General Information**

Physical State	Liquid	Appearance	Black
Odor	Alcohol		
Important Health, Safety and Environmental Information			
Flash Point	<20.9°C	Method	Seta closed cup.
Boiling Point/Range	>70°C	pH	5 - 7
Autoignition Temperature	>200°C	Vapor Pressure	No information available
Viscosity	< 15 cps	Solubility	Miscible
Specific Gravity	0.80 - 0.90	Evaporation Rate	No information available
Vapor Density	No information available.	Flammability Limits in Air	No information available

Other Information

Melting Point/Range	No information available.
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10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heating in air. Heat, flames and sparks.
Materials to Avoid	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides.
Hazardous Polymerization	None under normal processing.
Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

Product Information	The product itself has not been tested.
Inhalation	There is no data available for this product
Eye Contact	Expected to be an irritant based on components. Avoid contact with eyes.
Skin Contact	Prolonged skin contact may defat the skin and produce dermatitis.
Ingestion	May be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl alcohol	7060 mg/kg (Rat)		
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	83.2 mg/L (Rat) 4 h 64000 ppm (Rat) 4 h

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Chronic Toxicity

Target Organ Effects

Eyes. Lungs. Respiratory system. Skin. Central nervous system (CNS).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Ethyl alcohol			EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	EC50 = 10800 mg/L 24 h EC50 = 9268 mg/L 48 h
Methyl alcohol			EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	

Persistence and Degradability No information available

Bioaccumulative Potential No information available

Mobility No information available

Chemical Name	Log Pow
Ethyl alcohol	= -0.32
Methyl alcohol	= -0.77

13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products Dispose of as hazardous waste in compliance with local and national regulations

14. TRANSPORT INFORMATION

IATA

UN-No	UN1210
Proper Shipping Name	Printing Ink
Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Labeling
Symbol(s)

F - Highly flammable Xn - Harmful

Inkfinity-NP4™



R-phrase(s)

R11 - Highly flammable

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R68/20/21/22 - Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrase(s)

S 9 - Keep container in a well-ventilated place

S16 - Keep away from sources of ignition - No smoking

S33 - Take precautionary measures against static discharges

S36/37 - Wear suitable protective clothing and gloves

International Inventories

Chemical Name	TSCA	EINECS/ELINCS	DSL/NDSL	PICCS	ENCS	IECSC	AICS	KECL
Ethyl alcohol - 64-17-5	Present	X	X	X	(2)-202	X	X	KE-13217
Methyl alcohol - 67-56-1	Present	X	X	X	(2)-201	X	X	KE-23193

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

R11 - Highly flammable

R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R68/20/21/22 - Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Issuing Date July 26, 2010

Revision Note

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

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet