

1. PRODUCT IDENTIFICATION

PRODUCT NUMBER: 6050 Ink

PRODUCT COLOR: Black 17038, 27038, 37038
Blue 15102, 15123, 33182, 33392, 35190
NL Brown 20059, 30117, 30257, 30279
Clear
Gold, Gold 17043
Gray
Green 34031, 34540
Orange 68271
Silver
Violet
White 17875, 17925, 27875, 37875, 37925

RECOMMENDED USE: Coding, marking, stenciling

Manufacturer:

American Coding & Marking Ink Co., Inc. 1-908-756-0373
1220 North Avenue
Plainfield, NJ 07062-1796
USA

Emergency Telephone Number:

TRANSPORTATION: CHEMTREC : 1-800-424-9300 (North America)
1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION**Emergency Overview:****GHS Classification:**

Acute toxicity - Dermal	Category 5
Serious eye damage/eye irritation	Category 2A

GHS label elements, including precautionary statements

Pictogram

Signal Word **Warning****Hazard Statements**H313
H319May be harmful in contact with skin
Causes serious eye irritation

Precautionary Statements
P305 + 351 + 338

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-(2-Butoxyethoxy)ethanol	112-34-5	20-30
Medium Aliphatic Naphtha	64742-88-7	0-3

4. FIRST AID MEASURES

First Aid Measures

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

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

Skin: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Most important symptoms and effects

Symptoms Causes eye irritation. Causes skin irritation. Inhalation may cause respiratory tract irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. FIREFIGHTING MEASURES

Suitable extinguishing media:

Water fog, Multipurpose foam, Dry chemical, CO₂

Specific hazards in case of fire:

Fight as volatile liquid fire

Hazardous combustion products:

Carbon oxides, Nitrogen oxides, organic combustion products which may be toxic and/or irritating

Protective equipment and precautions for fire fighters:

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:**

Wear chemical goggles, gloves, boots and protective clothing. Wear respirator if necessary. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition and heat.

Environmental precaution:

Prevent additional discharge of material. Prevent material from entering sewers or water courses.

Methods and materials for containment and cleaning up:

Absorb small spills with sand, filter-aid, vermiculite or other inert absorbent material, then place in a chemical waste container. For large spills, contain with sand or earth dikes. Dispose of waste in accordance with applicable government regulations.

7. HANDLING AND STORAGE**Precautions for safe handling:**

Avoid contact with eyes. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Unscrew all caps slowly. Do not unscrew entirely until all pressure has been completely released. Keep away from heat/sparks/open flames/hot surfaces. Emptied containers may retain residues. Precautions apply to emptied containers.

Conditions for safe storage, including incompatibilities:

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep storage temperature between 4-32 °C (40-90 °F). Incompatible with strong oxidizing agents, strong acids, strong bases, alkali metals and halogens.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure Guidelines:**

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-(2-butoxyethoxy)ethanol 112-34-5	None	None	None
Medium Aliphatic Naphtha 64742-88-7	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³	IDLH: 20000 mg/m ³ TWA: 350 ppm TWA: 1800 mg/m ³

Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. Local exhaust and mechanical ventilations are recommended to be used as engineering controls.

Individual protection measures, such as personal protective equipment:

Eye/Face protection: Safety glasses with side shields or chemical goggles must be worn.

- Skin/Body protection:** Wear protective gloves. Wear suitable protective clothing and footwear appropriate for the risk of exposure.
- Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
- General hygiene:** Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<u>Property</u>	<u>Values</u>	<u>Remarks-Methods</u>
Physical state:	Liquid	
Odor:	Mild	
Odor threshold:	Not determined	
pH:	Not determined	
Melting point/freezing point:	Not determined	
Boiling point/Boiling range:	Not determined	
Flash point:	>116 °C / >240 °F	Tag Closed Cup
Evaporation Rate:	<1	butyl acetate = 1
Flammability (solid, gas):	Not determined	
Upper/lower flammability limits:	Not determined	
Vapor pressure:	Not determined	
Vapor density:	>1	air = 1
Specific gravity:	1.35 – 1.48	water = 1
Water solubility:	Slight	
Solubility in other solvents:	Not determined	
Partition Coefficient:	Not determined	
Auto-ignition Temperature:	Not determined	
Decomposition temperature:	Not determined	
Viscosity:	30,000 – 40,000	
VOC Content (%):	24 – 27%	
VOC Content:	2.7 – 3.3lbs/gal	

10. STABILITY AND REACTIVITY

Reactivity:

Not reactive under normal conditions.

Chemical Stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

None under normal processing.

Conditions to avoid:

Keep out of reach of children. Keep away from heat, sparks and open flame. Keep away from contact with incompatible materials.

Incompatible materials:

Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

Hazardous decomposition products:

Carbon oxides, nitrogen oxides, thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact:	Causes eye irritation
Skin contact:	Causes skin irritation
Inhalation:	May cause respiratory irritation.
Ingestion:	May be harmful if swallowed

Component Information:

Chemical Name and CAS#	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-butoxyethoxy)ethanol 112-34-5	=5660 mg/kg (Rat)	=2700 mg/kg (Rabbit)	No Data Available
Medium Aliphatic Naphtha 64742-88-7	=5000 mg/kg (Rat)	=3000 mg/kg (Rabbit)	=5500 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects:

Symptoms Please see section 4 of this SDS for symptoms

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

Carcinogenicity: No ingredient is listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity:

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity:****Component Information**

Chemical Name and CAS#	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2-(2-butoxyethoxy)ethanol 112-34-5	LC50 – Desmodesmus suspicatus - >100 mg/l – 24hrs	LC50 – Lepomis macrochirus – 1300 mg/l – 96h	LC50 – Pseudomonas putida – 1170 mg/l – 16hr	EC50 – Daphnia magna - >100 mg/l – 48hr
Medium Aliphatic Naphtha 64742-88-7	No Data	No Data	No Data	No Data

Persistence/Degradability:

Not determined

Bioaccumulation:

Not determined

Mobility:

Not determined

Other Adverse Effects:

No data available

13. DISPOSAL CONSIDERATIONS**Disposal of Wastes:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging:

Dispose of as unused product in accordance with applicable regional, national and local laws and regulations.

SECTION 14 – TRANSPORTATION INFORMATION**DOT**

UN number	None
Proper shipping name	Not Regulated
Hazard class	None
Packing group	None
ERG#	129

IATA

UN number	None
Proper shipping name	Not Regulated
Hazard class	None
Packing group	None

IMDG

UN number	None
Proper shipping name	Not Regulated
Hazard class	None
Packing group	None
Marine pollutant	No

SECTION 15 – REGULATORY INFORMATION**TSCA STATUS:**

All Components listed

OTHER REGULATORY:

<u>Ingredient(s)</u>	<u>SARA 302</u>	<u>SARA 311/312</u>	<u>SARA 313</u>	<u>RECRA</u>	<u>CERCLA</u>
2-(2-butoxyethoxy)ethanol	No	A, C	Yes	No	No
Medium Aliphatic Naphtha	No	A, F	No	No	No

SARA 311/312 Codes: R = Reactive Hazard
P = Pressure Hazard
F = Fire Hazard
A = Immediate/Acute
C = Delayed/Chronic

California Proposition 65 Components: Chemicals known to the state of California to cause birth defects or other reproductive harm:

NONE

SECTION 16 – OTHER INFORMATION

HMIS:

Health:	2
Chronic Health Hazard	*
Flammability:	1
Reactivity:	0

Revision Date: 14-Feb-2014
Replaces: 31-Jan-2014
Revision Note: New SDS format

Prepared by: Thomas S. Sweet, VP

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1. PRODUCT IDENTIFICATION

PRODUCT NAME: 6050-11

PRODUCT COLOR: Black 17038, 27038, 37038
 Blue 15102, 15123, 33182, 33392, 35190
 NL Brown 20059, 30117, 30257, 30279
 Clear
 Gold, Gold 17043
 Gray
 Green 34031, 34540
 Orange 68271
 Silver
 Violet
 White 17875, 17925, 27875, 37875, 37925

RECOMMENDED USE: Coding, marking, stenciling

Manufacturer/Supplier:

American Coding & Marking Ink Co., Inc.
 1220 North Avenue
 Plainfield, NJ 07062-1796
 USA

1-908-756-0373

Emergency Telephone Number:

TRANSPORTATION: CHEMTREC : 1-800-424-9300 (North America)
 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION**Emergency Overview:****GHS Classification:**

Flammable liquids	Category 2
Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1B
Skin sensitivity	Category 1
Specific target organ toxicity (single exposure)	Category 3
Reproductive toxicity	Category 1B
Chronic aquatic toxicity	Category 3

GHS label elements, including precautionary statements

Pictogram

Signal Word **Danger**

Hazard Statements

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H412	May cause long lasting harmful effects to aquatic life.

Precautionary Statements

P240	Ground/bond container and receiving equipment
P242	Use only non-sparking tools
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P262	Do not get in eyes, on skin, or on clothing
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+331+313	IF SWALLOWED: Do NOT induce vomiting. Get medical advice/attention.
P303+351+361	IF ON SKIN (or hair): Rinse continuously with water for several minutes. Remove/Take off immediately all contaminated clothing
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+351+338+313	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
1-Butanol	71-36-3	15-30
1-methoxy-2-propanol	107-98-2	5-15
Toluene	108-88-3	5-15
Diethylaminetriamine	111-40-0	2-5

4. FIRST AID MEASURES**First Aid Measures**

Ingestion:	If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Most important symptoms and effects

Symptoms	Causes serious eye damage. Can cause chemical burns. Inhalation may cause drowsiness or dizziness. Inhalation may cause respiratory tract irritation. Can cause central nervous system effects like nausea, dizziness, drowsiness and headache.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically
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5. FIREFIGHTING MEASURES**Suitable extinguishing media:**

Water fog, Multipurpose foam, Dry chemical, CO₂

Specific hazards in case of fire:

Fight as volatile liquid fire

Hazardous combustion products:

Carbon oxides, Nitrogen oxides, ammonia

Protective equipment and precautions for fire fighters:

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:**

Wear chemical goggles, gloves, boots and protective clothing. Wear respirator if necessary. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition and heat.

Environmental precaution:

Prevent additional discharge of material. Prevent material from entering sewers or water courses.

Methods and materials for containment and cleaning up:

Absorb small spills with sand, filter-aid, vermiculite or other inert absorbent material, then place in a chemical waste container. For large spills, contain with sand or earth dikes. Dispose of waste in accordance with applicable government regulations.

7. HANDLING AND STORAGE**Precautions for safe handling:**

Avoid contact with eyes. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Unscrew all caps slowly. Do not unscrew entirely until all pressure has been completely released. Keep away from heat/sparks/open flames/hot surfaces. Emptied containers may retain residues. Precautions apply to emptied containers.

Conditions for safe storage, including incompatibilities:

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep storage temperature between 4-32 °C (40-90 °F). Incompatible with strong oxidizing agents, strong acids, strong bases, alkali metals and halogens.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
1-Butanol CAS 71-36-3	TWA: 20 ppm	TWA: 100 ppm TWA: 300 mg/m ³ (skin)	IDLH: 1400 ppm TWA: 50 ppm TWA: 150 mg/m ³ (skin)
1-methoxy-2-propanol CAS 107-98-2	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³
Toluene CAS 108-88-3	TWA: 20 ppm	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³
Diethylaminetriamine CAS 111-40-0	Not Established	Not Established	TWA: 1 ppm TWA: 4 mg/m ³ (skin)

Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. Local exhaust and mechanical ventilations are recommended to be used as engineering controls.

Individual protection measures, such as personal protective equipment:

- Eye/Face protection:** Safety glasses with side shields or chemical goggles must be worn.
- Skin/Body protection:** Wear protective gloves. Wear suitable protective clothing and footwear appropriate for the risk of exposure.
- Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
- General hygiene:** Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<u>Property</u>	<u>Values</u>	<u>Remarks-Methods</u>
Physical state:	Liquid	
Color:		
Odor:	Solvent	
Odor threshold:	Not determined	
pH:	Not determined	
Melting point/freezing point:	Not determined	
Boiling point/Boiling range:	Not determined	
Flash point:	40.6 °C / 105 °F	Tag Closed Cup

Evaporation Rate:	<1	butyl acetate = 1
Flammability (solid, gas):	Not determined	
Upper/lower flammability limits:	Not determined	
Vapor pressure:	Not determined	
Vapor density:	>1	air = 1
Specific gravity:	1.0-1.4	water = 1
Water solubility:	Appreciable (>10%)	
Solubility in other solvents:	Not determined	
Partition Coefficient:	Not determined	
Auto-ignition Temperature:	Not determined	
Decomposition temperature:	Not determined	
Viscosity:	15,000-25,000 cps	
VOC Content (%):	30-40%	
VOC Content:	3.2-3.5 lbs/gal	

10. STABILITY AND REACTIVITY

Reactivity:

No Data.

Chemical Stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

None under normal processing.

Conditions to avoid:

Keep out of reach of children. Keep away from heat, sparks and open flame. Keep away from contact with incompatible materials.

Incompatible materials:

Strong oxidizing agents, strong acids, strong bases, alkali metals

Hazardous decomposition products:

Ammonia, carbon oxides, nitrogen oxides, thermal decomposition can lead to release of irritating and toxic gases and vapors

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact:	Causes serious eye damage
Skin contact:	Corrosive. Can cause chemical burns
Inhalation:	Causes respiratory tract irritation. May cause drowsiness, dizziness, headache and nausea.
Ingestion:	May be harmful if swallowed

Component Information:

SAFETY DATA SHEET

SDS# 6050-11

Revision Date: 5/21/2014

Chemical Name and CAS#	Oral LD50	Dermal LD50	Inhalation LC50
1-Butanol CAS 71-36-3	= 790 mg/kg (Rat)	= 3400 mg/kg (Rabbit)	= 8000 mg/L (Rat) 4 h
1-methoxy-2-propanol CAS 107-98-2	= 11,700 mg/kg (Mouse)	= 13,000 mg/kg (Rabbit)	= 10,000 mg/L (Rat) 5 h
Toluene CAS 108-88-3	= 5580 mg/kg (Rat)	= 12,196 mg/kg (Rabbit)	= 12,500 – 28,800 mg/L (Rat) 4 h
Diethylaminetriamine CAS 111-40-0	= 819 – 1430 mg/kg (Rat)	= 950 – 1240 mg/kg (Rabbit)	= 1.8 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects:

Symptoms

Please see section 4 of this SDS for symptoms

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

Carcinogenicity:

No ingredient is listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Toluene		3		

Legend

ACGIH (*American Conference of Governmental Industrial Hygienists*)

A3 - Animal Carcinogen

IARC (*International Agency for Research on Cancer*)

Group 1 - Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

NTP (*National Toxicology Program*)

Known - Known Carcinogen

OSHA (*Occupational Safety and Health Administration of the US Department of Labor*)

X - Present

Numerical measures of toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Component Information

Chemical Name and CAS#	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1-Butanol CAS 71-36-3	No Data	LC50 – Pimephales promelas – 1840 mg/L – 96h	No Data	EC50 – Daphnia magna – 1983 mg/L – 48h
1-methoxy-2-propanol CAS 107-98-2	No Data	No Data	No Data	No Data
Toluene CAS 108-88-3	EC50 – Chlorella vulgaris – 245 mg/L – 24h	LC50 – Oncorhynchus mykiss – 7.63 mg/L – 96h	No Data	EC50 – Daphnia magna – 8 mg/L – 24h
Diethylaminetriamine CAS 111-40-0	EC50 – Scenedesmus subspicatus – 592 mg/L – 96h	LC50 – Leuciscus idus – 430 mg/L – 96h	No Data	EC50 – Daphnia magna – 17 mg/L – 48h

Persistence/Degradability:

Not determined

Bioaccumulation:

Not determined

Mobility:

Not determined

Other Adverse Effects:

No data available

13. DISPOSAL CONSIDERATIONS**Disposal of Wastes:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging:

Dispose of as unused product in accordance with applicable regional, national and local laws and regulations.

SECTION 14 – TRANSPORTATION INFORMATION**DOT**

UN number	1210
Proper shipping name	Printing Ink
Hazard class	3
Packing group	III
ERG#	129

IATA

UN number	1210
Proper shipping name	Printing Ink
Hazard class	3
Packing group	III

IMDG

UN number	1210
Proper shipping name	Printing Ink
Hazard class	3
Packing group	III
Marine pollutant	No

SECTION 15 – REGULATORY INFORMATION**TSCA STATUS:**

All Components listed

OTHER REGULATORY:

<u>Ingredient(s)</u>	<u>SARA 302</u>	<u>SARA 311/312</u>	<u>SARA 313</u>	<u>RECRA</u>	<u>CERCLA</u>
1-Butanol	No	F, A, C	Yes	U031	No
1-methoxy-2-propanol	No	F, A	No	No	No
Toluene	No	F, A, C	Yes	U220	Yes
Diethylaminetriamine	No	F, A	No	No	No

SARA 311/312 Codes:

R = Reactive Hazard
P = Pressure Hazard
F = Fire Hazard
A = Immediate/Acute
C = Delayed/Chronic

California Proposition 65 Components: Chemicals known to the state of California to cause birth defects or other reproductive harm:

Toluene CAS# 108-88-3

SECTION 16 – OTHER INFORMATION

HMIS:

Health:	3
Chronic Health Hazard	*
Flammability:	3
Reactivity:	1

Revision Date: 21-May-2014

Replaces: 2-May-2014

Revision Note: Correction of flash point in section 9 and PG number in section 14

Prepared by: Thomas Sweet, VP

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