1. PRODUCT IDENTIFICATION

PRODUCT NAME: 6051

PRODUCT COLOR: Black, Black 17038, 27038, 37038
Blue, Blue 15092, 25053, 35177
NL Brown, NL Brown 30117
Clear
Gold 17043
Gray, Gray 26622
NL Green, Green 14193, 34031, 34087, 34230
NL Orange 12199, NL Orange 12300
NL Red, NL Red 11105, 11136, 21136, 31136, 11140, 21158, 77681
White, White 17875, 27875, 27925, 37858, 37875
NL Yellow 13538, NL Yellow 23538, NL Yellow 33538 (as of 12/27/17)

RECOMMENDED USE: Coding and Marking

Manufacturer/Supplier:
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:

Flammable liquids	Category 3
Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

GHS label elements, including precautionary statements

Pictogram



Signal Word **Warning**

Hazard Statements

H226	Flammable liquid and vapor
H316	Causes mild skin irritation
H319	Causes serious eye irritation

H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P233	Keep container tightly closed
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention
P370+P378	In case of fire: Use Water spray, CO2, dry chemical, or alcohol resistant foam to extinguish
P403+233	Store in a well-ventilated place. Keep container tightly closed
P501	Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
1-Methoxy-2-propanol	107-98-2	5-15
Methyl Isobutyl Ketone	108-10-1	5-15
Xylene (mixed isomers)	1330-20-7	5-15
Ethylbenzene	100-41-4	0-5

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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, CO_2

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

Specific hazards in case of fire:
Fight as volatile liquid fire
Water spray may spread fire.
Flashback fires may occur
Vapors are dense and may travel to remote ignition source

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, them 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 of 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-Methoxy-2-propanol 107-98-2	STEL: 150 ppm TWA: 100 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
Methyl Isobutyl Ketone 108-10-1	STEL: 75 ppm TWA: 25 ppm	TWA: 100 ppm TWA: 410 mg/m^3	IDLH: 500 ppm TWA: 50 ppm TWA: 205 mg/m^3 STEL:75 ppm STEL: 300 mg/m^3
Xylene (mixed isomers) 1330-20-7	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 150 ppm STEL: 655 mg/m^3	No Data
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 125 ppm STEL: 545 mg/m^3	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 125 ppm STEL: 545 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

Property	Values	Remarks-Methods
Physical state:	Liquid	
Odor:	Characteristic	
Odor threshold:	Not determined	
pH:	Not determined	
Melting point/freezing point:	Not determined	
Boiling point/Boiling range:	Not determined	
Flash point:	24.4 °C / 76 °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:	1.27	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:	Not determined	
VOC Content (%):	25-30%	
VOC Content:	2.6-3.2 lbs/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 serious eye irritation

Skin contact: Causes skin irritation

Inhalation: Harmful if inhaled.

Ingestion: May be harmful if swallowed

Component Information:

Chemical Name and CAS#	Oral LD50	Dermal LD50	Inhalation LC50
1-Methoxy-2-propanol 107-98-2	= 4,016 mg/kg (Rat)	> 2,000 mg/kg (Rabbit)	= 25.8 mg/ L (Rat) 6h
Methyl Isobutyl Ketone 108-10-1	= 2,080 mg/kg (Rat)	>10 ml/kg (Rabbit)	2000-4000 ppm (Rat) 4 h
Xylene (mixed isomers) 1330-20-7	= 3,523 mg/kg (Rat)	> 4,200 mg/kg (Rabbit)	> 20 mg/ L (Rat) 4h
Ethylbenzene 100-41-4	= 3,500 mg/kg (Rat)	No data available	= 17.8 mg/ L (Rat) 4h

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:

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl Isobutyl Ketone		2B		
Ethylbenzene		2B		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2B – Limited evidence of carcinogenicity
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-Methoxy-2-propanol 107-98-2	No data available	LC50 - Pimephales promelas – 20,800 mg/L – 96h	No data available	EC50 - Daphnia magna – 23,300 mg/L – 48h
Methyl Isobutyl Ketone 108-10-1	No data available	LC50 – golden orfe – 675-750 mg/L – 48h	No data available	EC50 - Daphnia magna – 4,300 mg/L – 24h
Xylene (mixed isomers) 1330-20-7	ErC50 – Pseudokirchneriella subcapitata – 4.36 mg.L – 73h	LC50 – Oncorhynchus mykiss – 2.6 mg/L – 96h	No data available	EC50 - Daphnia magna – 1 mg/L – 24h
Ethylbenzene 100-41-4	No data available	No data available	No data available	No data available

Persistence/Degradability:

Not determined

Bioaccumulation:

Not determined

Mobility:
Not determined

Other Adverse Effects:
Toxic to aquatic life.

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.

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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:

Ingredient(s)	SARA 302	SARA 311/312	SARA 313	RECRA	CERCLA
1-Methoxy-2-propanol	No	F, A	No	No	No
Methyl Isobutyl Ketone	No	F, A	Yes	U161	Yes
Xylene (mixed isomers)	No	F, A, C	Yes	U239	Yes
Ethylbenzene	No	F, A, C	Yes	No	Yes

SARA 311/312 Codes: R = Reactive Hazard
P = Pressure Hazard
F = Fire Hazard

A = Immediate/Acute
C = Delayed/Chronic

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

Methyl Isobutyl Ketone
Ethylbenzene

SECTION 16 – OTHER INFORMATION

HMIS:

Health:	2
Chronic Health Hazard	*
Flammability:	3
Reactivity:	0

Revision Date: 16-Jan-2019
Replaces: 14-Feb-2018
Revision Note: Added NL Red 31136 to section 1.

Prepared by: Thomas Sweet Jr, Pres.

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