1. PRODUCT IDENTIFICATION

PRODUCT NAME: 6051 Catalyst

PRODUCT COLOR: Gloss, Semi-Gloss, Lusterless

RECOMMENDED USE: Coding, marking, stenciling

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 2
Aspiration hazard	Category 1
Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation	Category 3
Skin corrosion/irritation	Category 1B
Skin sensitivitization	Category 1B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Reproductive toxicity	Category 2
Acute aquatic toxicity	Category 3

GHS label elements, including precautionary statements

Pictogram



Signal Word **Danger**

Hazard Statements

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

Precautionary Statements

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water
P303+P351+P361	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	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P310	Immediately call a POISON CENTER or doctor/physician
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P362+P364	Take off contaminated clothing and wash it before reuse
P370+P378	In case of fire: Use Water spray, CO2, dry chemical, or alcohol resistant foam to extinguish
P403+P235	Store in a well-ventilated place. Keep cool
P501	Dispose of contents/container to an approved waste disposal plant

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
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	2-10
Diethylenetriamine	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

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

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 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-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
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	Not established	Not established	Not established
Diethylenetriamine 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

Property	Values	Remarks-Methods
Physical state:	Liquid	
Odor:	Solvent	
Odor threshold:	Not determined	
pH:	Not determined	
Melting point/freezing point:	Not determined	
Boiling point/Boiling range:	Not determined	
Flash point:	18.9 °C / 66 °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:	Not soluble	
Solubility in other solvents:	Not determined	
Partition Coefficient:	Not determined	
Auto-ignition Temperature:	Not determined	
Decomposition temperature:	Not determined	
Viscosity:	Not determined	
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:
Reacts with oxidizing agents. Reacts with strong acids.

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:
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:

Chemical Name and CAS#	Oral LD50	Dermal LD50	Inhalation LC50
1-Butanol CAS 71-36-3	= 790 mg/kg (Rat)	= 5,620 mg/kg (Rabbit)	> 17.9 mg/L (Rat) 4 h
1-methoxy-2-propanol CAS 107-98-2	= 4,016 mg/kg (Rat)	= 13,000 mg/kg (Rabbit)	> 25,800 mg/ m^3 (Rat) 6h
Toluene CAS 108-88-3	= 5,580 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	= 28.1 mg/L (Rat) 4 h
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	= 2,169 mg/kg (Rat)	> 5,000 mg/kg (estimate)	No data
Diethylenetriamine 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
None				

Legend
ACGIH (American Conference of Governmental Industrial Hygienists)
A1 – Confirmed human carcinogen
A2 – Suspected human carcinogen
A3 - Confirmed animal carcinogen with unknown relevance to humans
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A – Probably 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-Butanol CAS 71-36-3	No Data	LC50 – Pimephales promelas – 1376 mg/L – 96h	No Data	EC50 – Daphnia magna – 1328 mg/L – 48h
1-methoxy-2-propanol CAS 107-98-2	No Data	LC50 - Pimephales promelas – 20,800 mg/L – 96h	No Data	EC50 - Daphnia magna – 23,300 mg/L – 48h
Toluene CAS 108-88-3	NOEC – Skeletonema costatum – 10 mg/L – 72h	LC50 – Oncorhynchus mykiss – 7.63 mg/L – 96h	No Data	EC50 – Ceriodphnia dubia – 3.78 mg/L – 48h
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	EC50 – Scenedesmus subspicatus – 84 mg/L – 72h	LC50 – Cyprinus carpio – 175 mg/L – 96h	No Data	LC50 – daphnia – 84 mg/L – 96h
Diethylenetriamine 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.

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SECTION 14 – TRANSPORTATION INFORMATION

DOT

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

IATA

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

IMDG

UN number	1210
Proper shipping name	Printing Ink
Hazard class	3
Packing group	II
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-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
2,4,6-tris(dimethylaminomethyl)phenol	No	A	No	No	No
Diethylenetriamine	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

Chemicals known to the state of California to cause cancer:

Formaldehyde CAS 50-00-0

SECTION 16 – OTHER INFORMATION

HMIS:

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

Revision Date: 6-May-2022
Replaces: 14-Sept-2018
Revision Note: Formulation update

Prepared by: Thomas Sweet, President

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