

1. PRODUCT IDENTIFICATION

PRODUCT NAME: 6050 Catalyst

PRODUCT COLOR: Black 17038, 27038, 37030, 37038
 Blue, Blue 15102, 15123, 33392, 35109, 35190,35250
 NL Brown 20059, 30117, 30257, 30279
 Clear
 Gold, Gold 17043
 Gray
 NL Green, Green 14193, 24190, 34031, 34540, 38901
 Orange 68271, Orange 22510, NL Orange 32246, NL Orange 12300
 Silver, Violet
 White 17875, 17925, 27875, 37873, 37925
 NL Yellow 23655, 33538, 13655 (as of 12/4/17), 13670

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
Serious eye damage/eye irritation	Category 1
Skin corrosion/irritation	Category 1B
Skin sensitivity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2
Specific target organ toxicity (single exposure)	Category 3
Reproductive toxicity	Category 2
Chronic 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
H318	Causes serious eye damage
H317	May cause an allergic skin reaction
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
P235	Keep cool
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+P351+P338	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
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P363	Wash contaminated clothing before reuse
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-Butanol	71-36-3	15-30
2-(2-Butoxyethoxy)ethanol	112-34-5	5-20
1-methoxy-2-propanol	107-98-2	5-15
Toluene	108-88-3	5-15
Diethylaminetriamine	111-40-0	2-5
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	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, 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:**

SAFETY DATA SHEET

SDS# 6050-11

Revision Date: 3/5/2024

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)
2-(2-butoxyethoxy)ethanol 112-34-5	None	None	None
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)
2,4,6-tris(dimethylaminomethyl)phenol CAS 90-72-2	Not Established	Not Established	Not Established

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:	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	

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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:

Chemical Name and CAS#	Oral LD50	Dermal LD50	Inhalation LC50
1-Butanol CAS 71-36-3	= 790 mg/kg (Rat)	= 5,6200 mg/kg (Rabbit)	> 17.9 mg/l (Rat) 4 h
2-(2-butoxyethoxy)ethanol 112-34-5	=2,410 mg/kg (Mouse)	= 2,764 mg/kg (Rabbit)	> 2.1 mg/L (Rat) 4h
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)	> 5,000 mg/kg (Rabbit)	= 28.1 mg/L (Rat) 4 h
Diethylaminietriamine CAS 111-40-0	= 819 – 1430 mg/kg (Rat)	= 950 – 1240 mg/kg (Rabbit)	= 1.8 mg/L (Rat) 4 h
2,4,6-tris(dimethylaminomethyl)phenol CAS 90-72-2	= 2,169 mg/kg (Rat)	> 5,000 mg/kg (estimate)	No data available

SAFETY DATA SHEET

SDS# 6050-11

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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 >= 0.1%				

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 – 1,376 mg/L - 96 h	No data	EC50 - Daphnia magna – 1,328 mg/L - 48 h
2-(2-butoxyethoxy)ethanol 112-34-5	LC50 – Desmodesmus suspiciatus - >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
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 – Ceriodaphnia dubia – 3.78 mg/L – 48h
Diethylaminoethanol 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
2,4,6- tris(dimethylaminomethyl)phenol CAS 90-72-2	ErC50 – Desmodesmus subspicatus – 84 mg/L – 72h	LC50 – Cyprinus carpio – 175 mg/L – 96h	Do Data	LC50 – daphnia – 84 mg/L – 96h

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
2-(2-butoxyethoxy)ethanol	No	A, C	Yes	No	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
2,4,6-tris(dimethylaminomethyl)phenol	No	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: 5-Mar-2024

Replaces: 6-July-2023

Revision Note: Addition of blue shade

Prepared by: Thomas Sweet Jr, Pres

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