1. PRODUCT IDENTIFICATION

PRODUCT NAME: 2000

PRODUCT COLOR: NL Aqua 35275

Black, NL Black 17038, NL Black 27038, NL Black 37038

P NL Black 27040

SS Black, SS Black 37038

Blue, NL Blue 15102, 25053, 35109, 35466, 83303 NL Brown, NL Brown 30111, 30117, SS Brown 30111

Gold, Gold 17043 NL Gray, Gray 36231

NL Green, NL Green 34108, 34558, 85105

Magenta Maroon

NL Orange, NL Orange 22510, 32169, 32246, Fire Orange

Pink

NL Red, NL Red 11105, 11136, 31136, 31158, Rocket Red, SS Red 31136

Silver, NL Tan

Violet

White, White 17875, 17925, 27875, 37875, 37925

SS White, SS White 27875, 37875, 37925, P White 37875

NL Yellow, H NL Yellow, NL Yellow 13538, 23538, 33538, 33655, Saturn Yellow,

SS NL Yellow 33538, 55693

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

GHS label elements, including precautionary statements



Signal Word Danger

Hazard Statements

H225 Highly flammable liquid and vapor
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

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 Wear protective gloves/protective clothing/eye protection/face protection
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304+P313 IF INHALED: Get medical advice/attention

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

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+P233 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-%
4-Hydroxy-4-methyl-2-pentanone	123-42-2	10-50
Ethyl Alcohol	64-17-5	10-40
2-Propanol	67-63-0	0-10
Ethyl Acetate	141-78-6	0-10
Propyl Acetate	109-60-4	0-2

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

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 Flashback fires may occur

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:

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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
4-Hydroxy-4-methyl-2-pentanone 123-42-2	TWA: 50 ppm	TWA: 50 ppm TWA: 240 mg/m ³	IDLH: 1800 ppm TWA: 50 ppm TWA: 240 mg/m ³
Ethyl Alcohol 64-17-5	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
2-Propanol 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Ethyl Acetate 141-78-6	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m ³
Propyl Acetate 109-60-4	TWA: 200 ppm STEL: 250 ppm	TWA: 200 ppm TWA: 840 mg/m³ STEL: 250 ppm STEL: 1050 mg/m³	IDLH: 1700 ppm TWA: 200 ppm TWA: 840 mg/m³ STEL: 250 ppm STEL: 1050 mg/m³

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.

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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: Characteristic
Odor threshold: Not determined

pH: Not determined
 Melting point/freezing point: Not determined
 Boiling point/Boiling range: Not determined

Flash point: $7.8 \, ^{\circ}\text{C} \, / \, 46 \, ^{\circ}\text{F}$ Tag Closed Cup Evaporation Rate: <1 butyl acetate = 1

Flammability (solid, gas):
Upper/lower flammability limits:
Vapor pressure:
Not determined
Not determined

 Vapor density:
 >1
 air = 1

 Specific gravity:
 0.91-1.19
 water = 1

 Water solubility:
 Partial

Solubility in other solvents:

Partition Coefficient:

Auto-ignition Temperature:

Decomposition temperature:

Not determined

Not determined

Not determined

 VOC Content (%):
 62-77%

 VOC Content:
 4.7-7.6 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: May cause skin irritation

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness.

Ingestion: May be harmful if swallowed

Component Information:

Chemical Name and CAS#	Oral LD50	Dermal LD50	Inhalation LC50
4-Hydroxy-4-methyl-2-pentanone 123-42-2	= 4,000 mg/kg (Rat)	= 13,500 mg/kg (Rabbit)	= 1500 ppm (Rat) 4 h
Ethyl Alcohol 64-17-5	> 2,000 mg/kg (Rat)	> 2,000 mg/kg (Rabbit)	= 20,000 mg/ m ³ (Rat) 10 h
2-Propanol 67-63-0	= 5,045 mg/kg (Rat)	= 12,800 mg/kg (Rabbit)	= 16,000 mg/m ³ (Rat) 8 h
Ethyl Acetate 141-78-6	= 5,620 mg/kg (Rat)	>18,000 mg/kg (Rabbit)	> 6,000 ppm (Rat) 6 h
Propyl Acetate 109-60-4	= 9,370 mg/kg (Rat)	> 17,740 mg/kg	No Data

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
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:

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Component Information

Chemical Name and CAS#	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
4-Hydroxy-4-methyl-2-		LC50 – Lepomis		EC50 – Daphnia magna –
pentanone		macrochirus – 420 mg/L –		9,000 mg/L – 24h
123-42-2		96h		
Ethyl Alcohol		LC50 - Pimephales promelas	EC50 = 34634 mg/L 30 min	EC50 - Daphnia magna -
64-17-5		– 15,300 mg/L – 96h	EC50 = 35470 mg/L 5 min	9268-14221 mg/L – 48h
2-Propanol	EC50 - Desmodesmus	LC50 - Pimephales promelas		EC50 - Daphnia magna –
67-63-0	subspicatus - 2000 mg/L -	- 9,640 mg/L - 96h		5,102 mg/L – 96h
	72h	_		_
Ethyl Acetate	EC50 - Algae - 4,300 mg/L	LC50 – Pimephales		EC50 – Daphnia magna –
141-78-6	– 24h	promelas - 220-250 mg/L -		560 mg/L – 48h
		96h		-
Propyl Acetate				EC50 – Daphnia magna –
109-60-4				318 mg/L – 24h

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 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
4-Hydroxy-4-methyl-2-pentanone	No	F, A, C	No	No	No
Ethyl Alcohol	No	F, C	No	No	No
2-Propanol	No	F, A, C	Yes	No	No
Ethyl Acetate	No	F, A, C	No	U112	Yes
Propyl Acetate	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 Prop. 65 Components: Chemicals known to the state of California to cause birth defects or other reproductive harm:

This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16 – OTHER INFORMATION

HMIS:

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

Revision Date: 18-Apr-2019 **Replaces:** 19-Dec-2018

Revision Note: Added colors in Section 1

Prepared by: Thomas Sweet Jr, Pres

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implied, regarding the accuracy of the information, the hazards connected with the use of the material, or results to be obtained from the use thereof. All of the listed ingredients in this product that are considered to present a health hazard as defined in Appendix A of the OSHA "Hazard Communication" standard (29CFR 1910.1200) as listed in Section II. All of the information given, including ingredient identification, CAS Number, and quantity, is proprietary information, which has been provided in order to meet the objective of the "Hazard Communication" standard. Data provided here are typical and not intended for use as product specifications. This formulation information is confidential, and only to be disclosed in accordance with Federal and State safety and health regulations. Permission to disclose any ingredient information for any other purpose is neither given nor implied.