

INK 191 E BLACK**SECTION 1. Identification of the substance/mixture and of the company/undertaking.****1.1. Product identifier.**

Code: **191**
Product name: **INK 191 E BLACK**

1.2. Relevant identified uses of the substance or mixture and uses advised against.

Intended use: **Printing Ink Industrial Use.**

1.3. Details of the supplier of the safety data sheet.

Name: **MarCode Inc. dba Zanasi USA**
Full address: **9490 Hemlock Lane N**
District and Country: **55369 Maple Grove, Minnesota**
United States of America
Tel: **763-593-1907**
Fax:

1.4. Emergency telephone number.

For urgent inquiries refer to: **For Hazardous Materials [or Dangerous Goods] Incident**
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300

SECTION 2. Hazards identification.**2.1. Classification of the substance or mixture.**

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement.

Flammable liquid, category 2

Serious eye damage, category 1

Specific target organ toxicity - single exposure, category 3

Highly flammable liquid and vapour.

Causes serious eye damage.

May cause drowsiness or dizziness.

Hazard pictograms:



Signal words: **Danger**

Hazard statements:

H225 Highly flammable liquid and vapour.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

Precautionary statements:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof electrical / ventilating / lighting / . . . / equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.

Response:

P303+P361+P353 IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

INK 191 E BLACK**SECTION 2. Hazards identification. ... / >>**

| | |
|------------------|--|
| P310 | Immediately call a POISON CENTER / doctor / . . . |
| P370+P378 | In case of fire: use . . . to extinguish. |
| Storage: | |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| Disposal: | |
| P501 | Dispose of contents / container to . . . |

2.2. Other hazards.

Additional hazards.
Repeated exposure may cause skin dryness or cracking.

SECTION 3. Composition/information on ingredients.**3.1. Substances.**

Information not relevant.

3.2. Mixtures.**Contains:**

| Identification. | x = Conc. %. | Classification: |
|------------------------|---------------------|--|
| ETHANOL | | |
| CAS. 64-17-5 | 38.5 | Flammable liquid, category 2 H225 |
| EC. 200-578-6 | | |
| INDEX. 603-002-00-5 | | |
| INERT | | |
| CAS. | 30.3 | |
| EC. | | |
| INDEX. | | |
| ETHYL ACETATE | | |
| CAS. 141-78-6 | 19 | Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific target organ toxicity - single exposure, category 3 H336 |
| EC. 205-500-4 | | |
| INDEX. 607-022-00-5 | | |
| PROPAN-1-OL | | |
| CAS. 71-23-8 | 7.2 | Flammable liquid, category 2 H225, Serious eye damage, category 1 H318, Specific target organ toxicity - single exposure, category 3 H336 |
| EC. 200-746-9 | | |
| INDEX. 603-003-00-0 | | |
| ACETONE | | |
| CAS. 67-64-1 | 5 | Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific target organ toxicity - single exposure, category 3 H336 |
| EC. 200-662-2 | | |
| INDEX. 606-001-00-8 | | |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.**4.1. Description of first aid measures.**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed.

Specific information on symptoms and effects caused by the product are unknown.
For symptoms and effects caused by the contained substances, see chap. 11.

INK 191 E BLACK**SECTION 4. First aid measures. ... / >>****4.3. Indication of any immediate medical attention and special treatment needed.**

Information not available.

SECTION 5. Firefighting measures.**5.1. Extinguishing media.****SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.**HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.**GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.**6.1. Personal precautions, protective equipment and emergency procedures.**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.**7.1. Precautions for safe handling.**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire.

Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

INK 191 E BLACK

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

| | | |
|-----|--------------|--|
| USA | NIOSH-REL | NIOSH publication No. 2005-149, 3th printing, 2007. |
| USA | OSHA-PEL | Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000. |
| USA | CAL/OSHA-PEL | California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs). |
| EU | OEL EU | Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC. |
| | TLV-ACGIH | ACGIH 2016 |

ETHANOL

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | |
|-----------|---------|--------|------|------------|------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| TLV-ACGIH | - | | | 1884 | 1000 |
| OSHA | USA | 1900 | 1000 | | |
| CAL/OSHA | USA | 1.9 | 1 | | |
| NIOSH | USA | 1900 | 1000 | | |

ETHYL ACETATE

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | |
|-----------|---------|--------|-----|------------|-----|
| | | mg/m3 | ppm | mg/m3 | ppm |
| TLV-ACGIH | - | 1441 | 400 | | |
| OSHA | USA | 1400 | 400 | | |
| CAL/OSHA | USA | 1.4 | 400 | | |
| NIOSH | USA | 1400 | 400 | | |

PROPAN-1-OL

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | | |
|-----------|---------|--------|-----|------------|-----|-------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV-ACGIH | - | 246 | 100 | | | |
| OSHA | USA | 500 | 200 | | | |
| CAL/OSHA | USA | 500 | 200 | 625 | 250 | SKIN. |
| NIOSH | USA | 500 | 200 | 625 | 250 | SKIN. |

ACETONE

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | |
|-----------|---------|--------|------|------------|----------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| OEL | EU | 1210 | 500 | | |
| TLV-ACGIH | - | 1187 | 500 | 1781 | 750 |
| OSHA | USA | 2400 | 1000 | | |
| CAL/OSHA | USA | 1200 | 500 | 1780 (C) | 3000 (C) |
| NIOSH | USA | 590 | 250 | | |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

INK 191 E BLACK**SECTION 8. Exposure controls/personal protection. ... / >>**

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose limit of use will be defined by the manufacturer (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84 and OSHA 29 CFR 1910.134.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.**9.1. Information on basic physical and chemical properties.**

| | |
|--|--------------------|
| Appearance | liquid |
| Colour | black |
| Odour | characteristic |
| Odour threshold. | 150 ppm |
| pH. | 6.3 |
| Melting point / freezing point. | Not available. |
| Initial boiling point. | > 35 °C. (95 °F) |
| Boiling range. | Not available. |
| Flash point. | < 23 °C. (73,4 °F) |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Lower inflammability limit. | 3 % (V/V). |
| Upper inflammability limit. | 13 % (V/V). |
| Lower explosive limit. | 3 % (V/V). |
| Upper explosive limit. | 13 % (V/V). |
| Vapour pressure. | Not available. |
| Vapour density | Not available. |
| Relative density. | 0,85-0,90 |
| Solubility | partially miscible |
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature. | Not available. |
| Decomposition temperature. | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Oxidising properties | Not available. |

9.2. Other information.

| | |
|------------------------------|---------|
| Total solids (250°C / 482°F) | 14,70 % |
|------------------------------|---------|

SECTION 10. Stability and reactivity.**10.1. Reactivity.**

There are no particular risks of reaction with other substances in normal conditions of use.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

ACETONE

Decomposes under the effect of heat.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

INK 191 E BLACK**SECTION 10. Stability and reactivity. ... / >>**

The vapours may also form explosive mixtures with the air.

ETHANOL

Risk of explosion on contact with: alkaline metals,alkaline oxides,calcium hypochlorite,sulphur monofluoride,acetic anhydride,acids,concentrated hydrogen peroxide,perchlorates,perchloric acid,perchloronitrile,mercury nitrate,nitric acid,silver,silver nitrate,ammonia,silver oxide,ammonia,strong oxidising agents,nitrogen dioxide.May react dangerously with: bromoacetylene,chlorine acetylene,bromine trifluoride,chromium trioxide,chromyl chloride,fluorine,potassium tert-butoxide,lithium hydride,phosphorus trioxide,black platinum,zirconium (IV) chloride,zirconium (IV) iodide.Forms explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

ACETONE

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents.Develops flammable gas on contact with: nitrosyl perchlorate.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ETHANOL

Avoid exposure to: sources of heat,naked flames.

ETHYL ACETATE

Avoid exposure to: light,sources of heat,naked flames.

ACETONE

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials.**ETHYL ACETATE**

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

ACETONE

Incompatible with: acids,oxidising substances.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ACETONE

May develop: ketenes,irritant substances.

SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.**ACUTE TOXICITY.**

| | |
|---|--|
| LC50 (Inhalation - vapours) of the mixture: | Not classified (no significant component). |
| LC50 (Inhalation - mists / powders) of the mixture: | Not classified (no significant component). |
| LD50 (Oral) of the mixture: | Not classified (no significant component). |
| LD50 (Dermal) of the mixture: | Not classified (no significant component). |

PROPAN-1-OL

| | |
|--------------------|------------------|
| LD50 (Oral). | 1870 mg/kg Rat |
| LD50 (Dermal). | 4055 mg/kg Rat |
| LC50 (Inhalation). | 33.8 mg/l/4h Rat |

INK 191 E BLACK**SECTION 11. Toxicological information. ... / >>**

ETHANOL
LD50 (Oral). > 5000 mg/kg Rat
LC50 (Inhalation). 120 mg/l/4h Pimephales promelas

Carcinogenicity Assessment:
64-17-5 ETHANOL
ACGIH:: A3
IARC:1
71-23-8 PROPAN-1-OL
ACGIH:: A4
67-64-1 ACETONE
ACGIH:: A4

SKIN CORROSION / IRRITATION.
Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION.
Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION.
Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY.
Does not meet the classification criteria for this hazard class.

CARCINOGENICITY.
Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY.
Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE.
May cause drowsiness or dizziness.

STOT - REPEATED EXPOSURE.
Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD.
Does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity.
Information not available.

12.2. Persistence and degradability.

PROPAN-1-OL
Solubility in water. 1000 - 10000 mg/l

ETHANOL
Solubility in water. 1000 - 10000 mg/l
Rapidly biodegradable.

ACETONE
Rapidly biodegradable.

ETHYL ACETATE
Solubility in water. > 10000 mg/l
Rapidly biodegradable.

12.3. Bioaccumulative potential.

INK 191 E BLACK

SECTION 12. Ecological information. ... / >>

| | |
|---|-------|
| PROPAN-1-OL | |
| Partition coefficient: n-octanol/water. | 0.2 |
| BCF. | 0.88 |
| | |
| ETHANOL | |
| Partition coefficient: n-octanol/water. | -0.35 |
| | |
| ACETONE | |
| Partition coefficient: n-octanol/water. | -0.23 |
| BCF. | 3 |
| | |
| ETHYL ACETATE | |
| Partition coefficient: n-octanol/water. | 0.68 |
| BCF. | 30 |

12.4. Mobility in soil.

| | |
|------------------------------------|-------|
| PROPAN-1-OL | |
| Partition coefficient: soil/water. | 0.633 |

12.5. Results of PBT and vPvB assessment.

Information not available.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
 Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
 CONTAMINATED PACKAGING
 Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

ADR / RID, IMDG, IATA: 1210

14.2. UN proper shipping name.

ADR / RID: PRINTING INK or PRINTING INK RELATED MATERIAL
 IMDG: PRINTING INK or PRINTING INK RELATED MATERIAL
 IATA: PRINTING INK or PRINTING INK RELATED MATERIAL

14.3. Transport hazard class(es).

ADR / RID: Class: 3 Label: 3



IMDG: Class: 3 Label: 3



IATA: Class: 3 Label: 3



14.4. Packing group.

ADR / RID, IMDG, IATA: II

INK 191 E BLACK

SECTION 14. Transport information. ... / >>

14.5. Environmental hazards.

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user.

| | | | |
|------------|---|--|--|
| ADR / RID: | HIN - Kemler: 33 Special Provision: 640C | Limited Quantities: 5 L | Tunnel restriction code: (D/E) |
| IMDG: | EMS: F-E, S-D | Limited Quantities: 5 L | |
| IATA: | Cargo: Pass.: Special Instructions: | Maximum quantity: 60 L Maximum quantity: 5 L A3, A72, A192 | Packaging instructions: 364 Packaging instructions: 353 |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

U.S. Federal Regulations.

Clean Air Act Section 112(b):

No component(s) listed.

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act – Priority Pollutants:

No component(s) listed.

Clean Water Act – Toxic Pollutants:

No component(s) listed.

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

67-64-1 ACETONE

EPA List of Lists:

313 Category Code:

No component(s) listed.

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

67-64-1 ACETONE
141-78-6 ETHYL ACETATE

EPCRA 313 TRI:

No component(s) listed.

RCRA Code:

67-64-1 ACETONE

INK 191 E BLACK**SECTION 15. Regulatory information. ... / >>**

141-78-6 ETHYL ACETATE

CAA 112 (r) RMP TQ:
No component(s) listed.State Regulations.Massachusetts:64-17-5 ETHANOL
141-78-6 ETHYL ACETATE
71-23-8 PROPAN-1-OL
67-64-1 ACETONEMinnesota:64-17-5 ETHANOL
141-78-6 ETHYL ACETATE
71-23-8 PROPAN-1-OL
67-64-1 ACETONENew Jersey:64-17-5 ETHANOL
141-78-6 ETHYL ACETATE
71-23-8 PROPAN-1-OL
67-64-1 ACETONENew York:141-78-6 ETHYL ACETATE
67-64-1 ACETONEPennsylvania:64-17-5 ETHANOL
141-78-6 ETHYL ACETATE
71-23-8 PROPAN-1-OL
67-64-1 ACETONECalifornia:64-17-5 ETHANOL
141-78-6 ETHYL ACETATE
71-23-8 PROPAN-1-OL
67-64-1 ACETONEProposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations.Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Canadian WHMIS.

Information not available.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| | |
|---------------------|--|
| Fam. Liq. 2 | Flammable liquid, category 2 |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| H225 | Highly flammable liquid and vapour. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

INK 191 E BLACK**SECTION 16. Other information. ... / >>****LEGEND:**

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

INK 191 E BLACK**SECTION 16. Other information. ... / >>**

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 03 / 04 / 05 / 08 / 09 / 10 / 11 / 13 / 14.