

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) 2015/830

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name: Ink, GP Black
Product Code: 51-0042-01

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

Product Use: Printing ink for use in BestCode CIJ

1.3 Details of the supplier of the safety data sheet

BestCode
3034 SE Loop 820
Fort Worth, TX 76140
817-349-8555

For further information, please contact Customer Service:

Customer Service: 817-349-8555
Email: Info@Bestcode.co

1.4 Emergency telephone number

Emergency Contact: Local Poison Information Center
Chem Tel. Inc. Toll Free 800-255-3924
International 813-248-0585

Section 2: Hazards identification

2.1 Classification of the mixture in accordance with Article 40 of Regulation (EC) No 1272/2008

GHS Rating:

Flammable Liquids, Category 2
Eye Corrosion / Irritation, Category 3
Specific Target Organ Toxicity (single exposure), Category 3

2.2 Label elements



Signal word: Danger

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

Hazard statements:

H225 - Highly flammable liquid and vapor.
H319 - Causes serious eye irritation.

Precautionary statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P230 - Keep wetted with ...
P240 - Ground/bond container and receiving equipment.
P250 - Do not subject to grinding/shock/.../ friction.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P233 - Keep container tightly closed.
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P243 - Take precautionary measures against static discharge.
P242 - Use only non-sparking tools.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P373 - DO NOT fight fire when fire reaches explosives.
P370+380 - In case of fire, evacuate area.
P372 - Explosion risk in case of fire.
P370+378 - In case of fire, use carbon dioxide, dry chemical powder, or appropriate foam to extinguish.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+313 - If skin irritation occurs, get medical advice/attention.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor/...
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTER/doctor/... if you feel unwell.
P401 - Store ...
P501 - Dispose of contents/container to ...
P403+235 - Store in cool/well-ventilated place.
P403+233 - Store container tightly closed in well-ventilated place.
P405 - Store locked up.

2.3 Adverse Human Health Effects and Symptoms:

Chronic: Chronic inhalation may cause effects similar to those of acute inhalation.
Prolonged or repeated skin contact may cause defatting and dermatitis. Animal studies have reported that fetal effects/abnormalities may occur when maternal toxicity is seen. Chronic overexposure to vapors may cause lung damage. Not available. Repeated eye exposure may cause visual abnormalities including blurred vision and photosensitivity. Repeated exposure in combination with constant, load

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

noise can produce hearing loss and vertigo. May cause reproductive and fetal effects. Laboratory experiments have shown mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage.

Inhalation: Causes respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness. May cause central nervous system effects such as nausea and headache. Neurobehavioural effects of exposure to MEK (200 ppm for 4 hrs) were studied with 137 volunteers. There were no statistically significant effects observed in biochemical, psychomotor, sensorimotor and psychological tests. Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Causes upper respiratory tract irritation. May cause respiratory tract irritation. May be harmful if inhaled. Exposure causes central nervous system depression with possible headache, dizziness, and drowsiness. May cause lung hemorrhage, blood disturbances, and liver and kidney abnormalities. Vapors may cause dizziness or suffocation.

Skin Contact: May be absorbed through the skin in harmful amounts. Repeated or prolonged exposure may cause drying and cracking of the skin. Only one human case of skin sensitization was located. Negative results were obtained in an animal test; MEK did not produce skin sensitization in the mouse ear thickness test. May cause irritation with pain and stinging, especially if the skin is abraded. Isopropanol has a low potential to cause allergic skin reactions; however, rare cases of allergic contact dermatitis have been reported. May be absorbed through intact skin. Dermal absorption has been considered toxicologically insignificant. The cases of deep coma associated with skin contact are thought to be a consequence of gross isopropanol vapor inhalation in rooms with inadequate ventilation, rather than being attributable to percutaneous absorption of isopropanol per se. Causes skin irritation. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis. Although n-butanol can enter the circulation after topical application, the absorbed dose is insignificant compared to that from other routes. Causes moderate skin irritation. May cause cyanosis of the extremities.

Eye Contact: Causes eye irritation. Vapors may cause eye irritation. Animal evidence suggests that MEK is a moderate to severe eye irritant. Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. May cause transient corneal injury. In the eyes of a rabbit, 0.1 ml of a rabbit, 0.1 ml of 70% isopropyl alcohol caused conjunctivitis, isopropyl alcohol caused conjunctivitis, iritis, and corneal opacity. May result in corneal injury. May cause eye irritation and possible damage. Risk of serious damage to eyes. Vapors appear to cause a special vacuolar keratopathy in humans. Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage.

Ingestion: May cause irritation of the digestive tract. Possible aspiration hazard. May cause central nervous system depression. Animal evidence suggests that MEK can be aspirated (inhaled) into the lungs during ingestion or vomiting. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. The probable oral lethal dose in

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

humans is 240 ml (2696 mg/kg), but ingestion of only 20 ml (224 mg/kg) has, but ingestion of only 20 ml (224 mg/kg) has caused poisoning. Harmful if swallowed. Aspiration hazard. May cause liver damage. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis.

Section 3: Composition/information on ingredients

3.1 Substances:

3.2 Mixtures:

CAS #	EC #	Hazardous components / REACH Registration No.	Concentration	GHS Classification
78-93-3	201-159-0	Methyl Ethyl Ketone	54.0 – 79.9%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
9004-70-0	NA	Nitrocellulose	7.0 -12.0 %	Explosive 1.1: H201 STOT (SE) 3: H335 H336
67-63-0	200-661-7 603-117-00-0	Isopropyl alcohol	2.0 -5.0 %	Flam. Liq. 3 STOT (SE) 3
71-36-3	200-751-6 603-004-00-6	n-Butyl alcohol	3.0 -7.0 %	Flam. Liq. 3 Acute Tox.(O) 4: Skin Corr. 2 Eye Damage 1 STOT (SE) 3
64-17-5	200-578-6 603-002-00-5	Ethyl alcohol	5.0 -15.0 %	Flam. Liq. 2: H225
57206-81-2	260-616-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	0.75 -1.75 %	Eye Damage 2A Aquatic (C) 3: H412
64611-73-0	264-966-7	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	0.75 -1.75 %	Eye Damage 2: H319 Aquatic (C) 3: H412
57206-83-4	260-617-8	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-, sodium	0.75 -1.75 %	Aquatic (C) 2: H411
59307-49-2	261-691-4	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-1-(2-hydroxy-5-nitrophenyl)azo-2-n	0.75 -1.75 %	Eye Damage 2: H319 Aquatic (C) 3: H412

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

Section 4: First Aid Measures

4.1 Description of first aid measures

- Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Remove victim to fresh air. If not breathing give artificial respiration. Remove from exposure and move to fresh air immediately. Do NOT use mouth-to-mouth resuscitation.
- Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Gently lift eyelids and flush continuously with water.
- Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. Flush with copious amounts of water for at least 15 minutes. Call a physician. Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Flush skin with plenty of soap and water.
- Ingestion:** Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward. Wash out mouth with water provided person is conscious. Call a physician. Get medical aid. Wash mouth out with water. Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water.

4.2 Most Important symptoms and effects, both acute and delayed

Prolonged exposure can cause: Nausea. Headache. Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Narcotic effect.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor: Treat symptomatically and supportively. Urine acetone test may be helpful in diagnosis. Hemodialysis should be considered in severe intoxication. Persons with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous system diseases may be at increased risk from exposure to this substance.

Antidote: Replace fluid and electrolytes.

Section 5: Fire Fighting Measures

5.1 Extinguishing media

In case of fire, use carbon dioxide, dry chemical powder or appropriate foam. Water may be ineffective because it will not cool material below its flash point. For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Water may be ineffective. Do NOT use straight streams of water. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. For small fires, use carbon dioxide, dry chemical, dry sand, or alcohol-resistant foam. Cool containers with flooding quantities of water until well after fire is out. Use water spray, dry chemical, carbon dioxide, or chemical foam. For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers.

5.2 Special hazards arising from the substance or mixture

Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions. Dry material is an explosive.

Flammable Liquid. Emits toxic fumes under fire conditions. Dry material is an explosive.

5.3 Advice for firefighters

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Use water spray to cool fire-exposed containers. Vapors may form explosive mixtures with air. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. May form explosive peroxides. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Replace fluid and electrolytes.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Evacuate

6.1.2 For emergency responders

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Environmental Precautions

Do not let this chemical enter the environment. Prevent further leakage or spillage if safe to do so. Do not let product enter drains

6.3 Methods and material for containment and cleaning up

6.3.1 For Containment:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Personal precautions.

6.3.2 Clean up and disposal of spill:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section).

Section 7: Handling and storage

7.1 Precautions for safe handling

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Avoid breathing vapor.



Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

User Exposure: Do not get in eyes, on skin, on clothing. Do not breathe vapor.

Explosion: Dry material is an explosive. Container explosion may occur under fire conditions. Take precautionary measures against static discharges. Avoid breathing dust, mist, or vapor. Do not allow to evaporate to near dryness. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use only in a chemical fume hood. Use only in a well-ventilated area.

7.2 Conditions for safe storage, including any compatibilities

Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Keep container closed. Keep away from heat, sparks, and open flame. Store away from heat and direct sunlight.

Incompatible Materials: Avoid all contact with strong acids and strong bases, Oxidizing agents, Amines,

SPECIAL REQUIREMENTS:

Do not allow material to become dry. Keep away from heat, sparks and flame. Do not store in direct sunlight. Store in a tightly closed container. Keep from contact with oxidizing materials. After opening, purge container with nitrogen before reclosing. Periodically test for peroxide formation on long-term storage. Addition of water or appropriate reducing materials will lessen peroxide formation. Store protected from moisture. Containers should be dated when opened and tested periodically for the presence of peroxides. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals. All peroxidizable substances should be stored away from heat and light and be protected from ignition sources. Store in a cool, dry place. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

7.3 Specific end use(s)

Fluid delivery to BestCode Series 8 CIJ. Follow safety instructions outlined in 7.1 & 7.2 while handling. Observe warnings provided with BestCode Series 8 CIJ system when installing and handling fluids.

Section 8: Exposure control/personal protection

8.1 Control parameters

CAS #	Hazardous components	ACGIH TLV	Australia	Austria
78-93-3	Methyl Ethyl Ketone	TLV: 200 ppm STEL: 300 ppm	TWA: 295 mg/m3 (100 ppm) STEL: 590 mg/m3 (200 ppm)	TWA: 445 mg/m3 (150 ppm) STEL: 890 mg/m3 (300 ppm)
67-63-0	Isopropyl alcohol	TLV: 200 ppm STEL: 400 ppm	TWA: 500 mg/m3 (200 ppm) STEL: 2000 mg/m3 (800 ppm)	TWA: 983 mg/m3 (400 ppm) STEL: 1230 mg/m3 (500 ppm)

Safety Data Sheet

Product Number: 51-0042-01
 Product Name: Ink, GP Black

Date: 12/10/2020
 Revision: C

71-36-3	n-Butyl alcohol	TLV: 20 ppm	TWA: 150 mg/m ³ (50 ppm) STEL: 600 mg/m ³ (200 ppm)	TWA: 152 Peak limitation (50 Peak limitation) STEL: ()
64-17-5	Ethyl alcohol	TLV: 1000 ppm	TWA: 1900 mg/m ³ (1000 ppm) STEL: 3800 mg/m ³ (2000 ppm)	TWA: 1880 mg/m ³ (1000 ppm) STEL: ()

CAS #	Hazardous components	Belgium OEL	California, USA	Ontario, CA
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)	TWA: 590 mg/m ³ (200 ppm) STEL: 885 mg/m ³ (300 ppm)	TWA: 200 ppm STEL: 300 ppm
67-63-0	Isopropyl alcohol	TWA: 500 mg/m ³ (200 ppm) STEL: 1000 mg/m ³ (400 ppm)	TWA: 980 mg/m ³ (400 ppm) STEL: 1225 mg/m ³ (500 ppm)	TWA: 200 ppm STEL: 400 ppm
71-36-3	n-Butyl alcohol	TWA: 62 mg/m ³ (20 ppm)	CEIL: 150 mg/m ³ (50 ppm)	TWA: 20 ppm
64-17-5	Ethyl alcohol	TWA: 1907 mg/m ³ (1000 ppm)	TWA: 1900 mg/m ³ (1000 ppm)	STEL: 1000 ppm

CAS #	Hazardous components	China	Québec, CA	German AGS
78-93-3	Methyl Ethyl Ketone	TWA: 300 mg/m ³ STEL: 600 mg/m ³ (15 min)	TWA: 150 mg/m ³ (50 ppm) STEL: 300 mg/m ³ (100 ppm)	TWA: 600 mg/m ³ (200 ppm) STEL: 600 mg/m ³ (200 ppm) (15 min)
67-63-0	Isopropyl alcohol	TWA: 350 mg/m ³ STEL: 700 mg/m ³ (15 min)	TWA: 983 mg/m ³ (400 ppm) STEL: 1230 mg/m ³ (500 ppm)	TWA: 500 mg/m ³ (200 ppm) STEL: 1000 mg/m ³ (400 ppm) (15 min)
71-36-3	n-Butyl alcohol	TWA: 100 mg/m ³	CEIL: 152 mg/m ³ (50 ppm)	TWA: 310 mg/m ³ (100 ppm) STEL: 310 mg/m ³ (100 ppm) (15 min)
64-17-5	Ethyl alcohol		TWA: 1880 mg/m ³ (1000 ppm)	TWA: 960 mg/m ³ (500 ppm) STEL: 1920 mg/m ³ (1000 ppm) (15 min)

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

CAS #	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL
78-93-3	Methyl Ethyl Ketone	TWA: 295 mg/m ³ (100 ppm) STEL: 600 mg/m ³ (200 ppm) (30min) (4x)	TWA: 145 mg/m ³ (50 ppm) STEL: 290 mg/m ³ (100 ppm)	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)
67-63-0	Isopropyl alcohol	TWA: 500 mg/m ³ (200 ppm) STEL: 2000 mg/m ³ (15/30min)(4x) (800 ppm (15/30min) (4x))	TWA: 500 mg/m ³ (200 ppm) STEL: 980 mg/m ³ (400 ppm)	TWA: 500 mg/m ³ (200 ppm) STEL: 1000 mg/m ³ (400 ppm)
71-36-3	n-Butyl alcohol	TWA: 150 mg/m ³ (50 ppm) STEL: 600 mg/m ³ (200 ppm) (15min) (4x)	TWA: 150 mg/m ³ (50 ppm) STEL: 150 mg/m ³ (50 ppm)	TWA: 61 mg/m ³ (20 ppm) STEL: 154 mg/m ³ (50 ppm)
64-17-5	Ethyl alcohol	TWA: 1900 mg/m ³ (1000 ppm) STEL: 3800 mg/m ³ (2000 ppm) (60min) (3x) TWA: 960 mg/m ³ (500 ppm)	TWA: 1900 mg/m ³ (1000 ppm) STEL: 3800 mg/m ³ (2000 ppm)	STEL: 1910 mg/m ³ (1000 ppm)

CAS #	Hazardous components	Europe	Finland OEL	France VL
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)	STEL: 300 mg/m ³ (100 ppm) (15 min)	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)
67-63-0	Isopropyl alcohol		TWA: 500 mg/m ³ (200 ppm) STEL: 620 mg/m ³ (250 ppm) (15 min)	STEL: 980 mg/m ³ (400 ppm)
71-36-3	n-Butyl alcohol		TWA: 150 mg/m ³ (50 ppm) STEL: 230 mg/m ³ (75 ppm) (15 min)	STEL: 150 mg/m ³ (50 ppm)
64-17-5	Ethyl alcohol		TWA: 1900 mg/m ³ (1000 ppm) STEL: 2500 mg/m ³ (1300 ppm)(15min)	TWA: 1900 mg/m ³ (1000 ppm) STEL: 9500 mg/m ³ (5000 ppm)

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

CAS #	Hazardous components	Hungary OEL	Ireland OEL	Italy OEL
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m ³ STEL: 900 mg/m ³	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm) (15 min)	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)
67-63-0	Isopropyl alcohol	TWA: 500 mg/m ³ STEL: 2000 mg/m ³	TWA: 200 ppm STEL: 400 ppm (15 min)	
71-36-3	n-Butyl alcohol			
64-17-5	Ethyl alcohol	TWA: 1900 mg/m ³ STEL: 7600 mg/m ³	STEL: 1000 ppm (15 min)	

CAS #	Hazardous components	South Korea	Latvia OEL	Mexico OEL
78-93-3	Methyl Ethyl Ketone	TWA: 590 mg/m ³ (200 ppm) STEL: 885 mg/m ³ (300 ppm)	TWA: 200 mg/m ³ (67 ppm) STEL: 900 mg/m ³ (300 ppm) (15 min)	TWA: 590 mg/m ³ (200 ppm) STEL: 885 mg/m ³ (300 ppm)
67-63-0	Isopropyl alcohol	TWA: 480 mg/m ³ (200 ppm) STEL: 980 mg/m ³ (400 ppm)	TWA: 350 mg/m ³ STEL: 600 mg/m ³ (15 min)	TWA: 980 mg/m ³ (400 ppm) STEL: 1225 mg/m ³ (500 ppm)
71-36-3	n-Butyl alcohol	TWA: 60 mg/m ³ (20 ppm)		CEIL: 150 mg/m ³ (50 ppm)
64-17-5	Ethyl alcohol	TWA: 1900 mg/m ³ (1000 ppm)	TWA: 1000 mg/m ³	TWA: 1900 mg/m ³ (1000 ppm)

CAS #	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
78-93-3	Methyl Ethyl Ketone	TWA: 590 mg/m ³ (200 ppm)	TWA: 200 ppm STEL: 300 ppm	TWA: 590 mg/m ³ STEL: 900 mg/m ³
67-63-0	Isopropyl alcohol	TWA: 983 mg/m ³ (400 ppm)	TWA: 980 mg/m ³ (400 ppm) STEL: 1225 mg/m ³ (500 ppm)	
71-36-3	n-Butyl alcohol	CEIL: 152 mg/m ³ (50 ppm)	CEIL: 50 ppm	
64-17-5	Ethyl alcohol	TWA: 1880 mg/m ³ (1000 ppm)	TWA: 1900 mg/m ³ (1000 ppm)	TWA: 260 mg/m ³ STEL: 1900 mg/m ³

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

CAS #	Hazardous components	New Zealand	OSHA PELs	Poland
78-93-3	Methyl Ethyl Ketone	TWA: 445 mg/m ³ (150 ppm) STEL: 890 mg/m ³ (300 ppm)	PEL: 200 ppm	TWA: 450 mg/m ³ STEL: 900 mg/m ³
67-63-0	Isopropyl alcohol	TWA: 983 mg/m ³ (400 ppm) STEL: 1230 mg/m ³ (500 ppm)	PEL: 400 ppm	TWA: 900 mg/m ³ STEL: 1200 mg/m ³
71-36-3	n-Butyl alcohol	CEIL: 150 mg/m ³ (50 ppm)	PEL: 100 ppm	TWA: 50 mg/m ³ STEL: 150 mg/m ³
64-17-5	Ethyl alcohol	TWA: 1880 mg/m ³ (1000 ppm)	PEL: 1000 ppm	TWA: 1900 mg/m ³

CAS #	Hazardous components	Sweden OEL	Singapore	Britain EH40
78-93-3	Methyl Ethyl Ketone	TWA: 150 mg/m ³ (50 ppm) STEL: 300 mg/m ³ (100 ppm) (15 min)	TWA: 590 mg/m ³ (200 ppm) STEL: 885 mg/m ³ (300 ppm)	TWA: 600 mg/m ³ (200 ppm) STEL: 899 mg/m ³ (300 ppm)
67-63-0	Isopropyl alcohol	TWA: 350 mg/m ³ (150 ppm) STEL: 600 mg/m ³ (250 ppm) (15 min)	TWA: 983 mg/m ³ (400 ppm) STEL: 1230 mg/m ³ (500 ppm)	TWA: 999 mg/m ³ (400 ppm) STEL: 1250 mg/m ³ (500 ppm)
71-36-3	n-Butyl alcohol	TWA: 45 mg/m ³ (15 ppm) CEIL: 90 mg/m ³ (30 ppm)	STEL: 150 mg/m ³ (50 ppm)	STEL: 154 mg/m ³ (50 ppm)
64-17-5	Ethyl alcohol	TWA: 1000 mg/m ³ (500 ppm) STEL: 1900 mg/m ³ (1000 ppm) (15 min)	TWA: 1880 mg/m ³ (1000 ppm)	TWA: 1920 mg/m ³ (1000 ppm) STEL: ()

CAS #	Hazardous components	Switzerland OEL	Japan OEL	
78-93-3	Methyl Ethyl Ketone			
67-63-0	Isopropyl alcohol	TWA: 500 mg/m ³ (200 ppm) STEL: 1000 mg/m ³ (400 ppm)		
71-36-3	n-Butyl alcohol	TWA: 150 mg/m ³ (50 ppm) STEL: 150 mg/m ³ (50 ppm)		
64-17-5	Ethyl alcohol			



Safety Data Sheet

Date: 12/10/2020
Revision: C

Product Number: 51-0042-01
Product Name: Ink, GP Black

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design. Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required. Use explosion-proof ventilation equipment. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

8.2.2 Individual protection measures, such as personal protective equipment

- Eye/Face protection:** Wear chemical splash goggles. Chemical safety goggles. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin protection:** Wear appropriate protective gloves to prevent skin exposure. Rubber gloves. Wear appropriate gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.
- Respiratory protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.
- Hygienic Practices:** DO NOT SMOKE IN WORK AREA! Promptly remove contaminated clothing. Wash immediately if skin becomes contaminated. Do not eat or drink in work area while using this product. Wash thoroughly at the end of the workday, before eating and using the restroom.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Dark liquid		
Odor:	Solvent	Odor threshold:	No data available
pH:	No data available	Melting point:	-114.10 C
Boiling range:	78.0 C - 117.60 C	Flash point:	>-7.0 C
Evaporation rate:	3.1 (BuAC=1)	Upper Explosive Limit:	No data available
		Lower Explosive Limit:	No data available
Flammability:	No data available	Vapor Pressure:	85 MM_HG at 20.0 C
Vapor density:	> Air	Relative Density:	0.853 (H2O = 1 @ 20 °C)
Solubility(ies):	Miscible	Partition coefficient n-octanol/water:	No data available
Auto-ignition temperature:	>340.00 C	Decomposition temperature:	No data available
Viscosity:	No data available		No data available
Explosive properties:	> 85.7% Volatile by volume.		
Oxidizing properties:	No data available		

9.2 Other information:

Miscibility:	No data available	VOC:	No data available
---------------------	-------------------	-------------	-------------------

Section 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid:

Ignition sources, Excess heat, May be shock-sensitive if dry. Light, High temperatures, Incompatible materials.

10.5 Incompatible materials:

Strong oxidizing agents, Strong acids, 2-propanol, Oxidizing agents, acids, Bases, Acid anhydrides, Halogens, Strong bases, Amines, Ammonia, ethylene oxide, isocyanates, acetaldehyde, chlorine, phosgene, Attacks some forms of plastics, rubbers, and coatings. aluminum at high temperatures.

Safety Data Sheet

Date: 12/10/2020
Revision: C

Product Number: 51-0042-01
Product Name: Ink, GP Black

Aluminum, organic peroxides, chromium trioxide, Reducing agents, Acid chlorides, Copper, Copper alloys, Alkali metals, hydrazine, Peroxides, Sodium, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, Perchloric acid, silver nitrate, mercuric nitrate, potassium tert-butoxide, magnesium perchlorate, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate.

10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Nitrogen oxides, methane. Aldehydes, carboxylic acids, Hydrogen cyanide, irritating and toxic fumes and gases.

Section 11: Toxicological information

11.1 Information on Toxicological effects

Acute toxicity: CAS# 78-93-3:
Acute toxicity, LD50, Intraperitoneal, Mouse, 616.0 MG/KG.
Result:
Lungs, Thorax, or Respiration: Sputum.
Biochemical: Metabolism (Intermediary): Other proteins.
Biochemical: Metabolism (intermediary): Effect on inflammation or mediation of inflammation.
- Shell Chemical Company. Unpublished Report., Vol/p/yr: -,6, 1961

Acute toxicity, LD50, Skin, Species: Rabbit, 6480. MG/KG.
Result:
Lungs, Thorax, or Respiration: Other changes.
Biochemical: Metabolism (intermediary): Effect on inflammation or mediation of inflammation.
- Shell Chemical Company., Vol/p/yr: MSDS-5390-,

Acute toxicity, LC50, Inhalation, Mouse, 32.00 MG/M3.
Result:
Brain and Coverings: Other degenerative changes.
Biochemical: Metabolism (intermediary): Effect on inflammation or mediation of inflammation.

Acute toxicity, LD50, Intraperitoneal, Species: Guinea pig, 2.000 GM/KG.
Result:
Immunological Including Allergic: Increase in humoral immune response.
Causes skin irritation. May be harmful if absorbed through the skin.

Skin corrosion/irritation:

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

Serious eye damage/irritation: Causes eye irritation.
Respiratory or skin sensitization: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Germ cell mutagenicity: No data available
Carcinogenicity: CAS# 78-93-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 67-63-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 71-36-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

IARC: Group 3: Not classifiable as to its carcinogenicity to humans
3.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard May be harmful if swallowed.

11.1.1 Hazard Class information:

No data available

11.1.2 Mixture toxicity:

No data available

11.1.3 Critical studies:

No data available

11.1.4 Non-compliance hazard class:

No data available

11.1.5 Information on likely routes of exposure:

Kidneys. Liver. Cardiovascular system. Gastrointestinal System. Nerves. Epidemiology:

11.1.6 Symptoms related to the physical, chemical and toxicological characteristics:

No data available

11.1.7 Delayed and immediate effects as well as chronic effects from short and long-term exposure:

No data available

11.1.8 Interactive effects:



Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

No data available
11.1.9 Absence of specific data:

No data available
11.1.10 Mixtures:

No data available
11.1.11 Mixture vs Substance information:

No data available
11.1.12 Other information:

No data available

Section 12: Ecological information

12.1 Toxicity:

Environmental: Substance evaporates in water with T1/2= 3D (rivers) to 12D (lakes). Substance is not expected to bioconcentrate in marine life.
Physical: Substance photodegrades in air with T1/2 = 2.3 days. Oxidizes rapidly by photo-chemical reactions in air. Readily biodegradable meeting the 10 day window criterion. Not expected to bioaccumulate significantly.

Ecotoxicity: Fish: Fathead Minnow: 1000 ppm; 96h; LC50Daphnia: 1000 ppm; 96h; LC50Fish: Gold orfe: 8970-9280 ppm; 48h; LC50 IPA has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge.

Physical: THOD: 2.40 g oxygen/gCOD: 2.23 g oxygen/gBOD-5: 1.19-1.72 g oxygen/g.

When released to the atmosphere it will photodegrade in hours (polluted urban atmosphere) to an estimated range of 4 to 6 days in less polluted areas. Rainout should be significant.

12.2 Persistence and degradability:

No data available

12.3 Bioaccumulative potential:

No data available

12.4 Mobility in soil:

No data available



Safety Data Sheet

Product Number: 51-0042-01
 Product Name: Ink, GP Black

Date: 12/10/2020
 Revision: C

12.5 Results of PBT and vPvB assessment:

No data available

12.6 Other adverse effects:

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series:

CAS# 78-93-3: waste number U159 (Ignitable waste, Toxic waste).

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION.

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

RCRA U-Series: None

listed. CAS# 71-36-3: waste number U031 (Ignitable waste).

Section 14: Transport information

14.1	UN number:	1210
14.2	Proper shipping name:	
	US DOT:	Printing Ink
	Canadian TDG:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	European ADR/RID:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	IMDG/IMO:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	ICAO/IATA:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
14.3	Transport hazard class(es) :	3 - FLAMMABLE LIQUID
14.4	Packing group:	II
14.5	Environmental hazards:	N/A

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

14.6	Special precautions for user:	N/A
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	N/A

Section 15: Regulatory information

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

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists				
CAS #	Hazardous components	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
78-93-3	Methyl Ethyl Ketone	No	Yes 5000LB	No
9004-70-0	Nitrocellulose	No	No	No
67-63-0	Isopropyl alcohol	No	No	Yes
71-36-3	n-Butyl alcohol	No	Yes 5000LB	Yes
64-17-5	Ethyl alcohol	No	No	No
57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	No	No	Yes-Cat. N090
64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	No	No	Yes-Cat. N090
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	No	No	Yes-Cat. N090
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-1-(2-hydroxy-5-nitrophenyl)azo-2-n	No	No	Yes-Cat. N090

CAS #	Hazardous components	Canadian NPRI	Canadian Toxic	Canadian DSL
78-93-3	Methyl Ethyl Ketone	Yes	No	Yes
9004-70-0	Nitrocellulose	No	No	Yes
67-63-0	Isopropyl alcohol	Yes	No	Yes
71-36-3	n-Butyl alcohol	Yes	No	Yes
64-17-5	Ethyl alcohol	Yes	No	Yes
57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Yes - Cat.	No	Yes
64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2	Yes - Cat.	No	Yes

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

	-naphthalenolato(2-)-, sodium			
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	Yes - Cat.	No	Yes
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)1-(2-hydroxy-5-nitrophenyl)azo-2-n	Yes - Cat.	No	Yes

CAS #	Hazardous components	CAA HAP, ODC	CWA NPDES	TSCA
78-93-3	Methyl Ethyl Ketone	No	No	Yes - Inv
9004-70-0	Nitrocellulose	No	No	Yes - Inv
67-63-0	Isopropyl alcohol	No	No	Yes - Inv
71-36-3	n-Butyl alcohol	No	No	Yes - Inv
64-17-5	Ethyl alcohol	No	No	Yes - Inv
57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Yes – Cat,	No	Yes - Inv
64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Yes – Cat,	No	Yes - Inv
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	Yes – Cat,	No	Yes - Inv
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)1-(2-hydroxy-5-nitrophenyl)azo-2-n	Yes – Cat,	No	Yes - Inv

CAS #	Hazardous components	CA Prop 65	Mexico INSQ	Australia ICS
78-93-3	Methyl Ethyl Ketone	No	Yes - 1193	Listed
9004-70-0	Nitrocellulose	No	Listed	Listed
67-63-0	Isopropyl alcohol	No	Yes – 1219	Listed
71-36-3	n-Butyl alcohol	No	Listed	Listed
64-17-5	Ethyl alcohol	No	Listed	Listed
57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	No	No	Listed

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	No	No	Listed
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	No	No	Listed
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-1-(2-hydroxy-5-nitrophenyl)azo-2-n	No	No	Listed

CAS #	Hazardous components	New Zealand IOC	China IECSC	Japan ENCS
78-93-3	Methyl Ethyl Ketone	Listed	Listed	Yes - 2-542
9004-70-0	Nitrocellulose	Listed	Listed	Yes – 8-176
67-63-0	Isopropyl alcohol	Listed	Listed	Yes -2-207
71-36-3	n-Butyl alcohol	Listed	Listed	Yes -7-321
64-17-5	Ethyl alcohol	Listed	Listed	Yes -5-153
57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Listed	Listed	Yes - 5-1892;
64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Listed	Listed	Yes – 5-4372
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	Listed	Listed	No
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-1-(2-hydroxy-5-nitrophenyl)azo-2-n	Listed	Listed	Yes - 5-1892;

CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
78-93-3	Methyl Ethyl Ketone	No	Yes KE-24094	Listed
9004-70-0	Nitrocellulose	No	Yes KE-25980	Listed
67-63-0	Isopropyl alcohol	Yes -2(-8)-319	Yes KE-29363	Listed
71-36-3	n-Butyl alcohol	Yes -2(-8)-299	Yes KE-03867	Listed
64-17-5	Ethyl alcohol	No	Yes KE-13217	Listed
57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2	No	No	Listed

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

	-naphthalenolato(2-)-, sodium			
64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	No	No	Listed
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	No	No	No
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-1-(2-hydroxy-5-nitrophenyl)azo-2-n	No	No	Listed

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
78-93-3	Methyl Ethyl Ketone	Listed	No	No
9004-70-0	Nitrocellulose	Listed	No	No
67-63-0	Isopropyl alcohol	Listed	No	Yes-Cat
71-36-3	n-Butyl alcohol	Listed	No	Yes-Cat
64-17-5	Ethyl alcohol	Listed	No	Yes-Cat
57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Listed	Yes-Cat	Yes-Cat
64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Listed	Yes-Cat	Yes-Cat
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	Listed	Yes-Cat	Yes-Cat
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-1-(2-hydroxy-5-nitrophenyl)azo-2-n	Listed	Yes-Cat	Yes-Cat

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
78-93-3	Methyl Ethyl Ketone	Yes – 150	Yes G-2429	No
9004-70-0	Nitrocellulose	No	Yes G-8365	No
67-63-0	Isopropyl alcohol	Yes - 135	Yes G-1712	No
71-36-3	n-Butyl alcohol	Yes – 39	Yes G-1321	No
64-17-5	Ethyl alcohol	Yes – 96	Yes G-1158	No

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	No	No	No
64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Yes- 7291	No	No
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	No	No	No
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-1-(2-hydroxy-5-nitrophenyl)azo-2-n	No	No	No

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
78-93-3	Methyl Ethyl Ketone	Yes - (R), (P)	No	No
9004-70-0	Nitrocellulose	Yes - (P)	No	No
67-63-0	Isopropyl alcohol	Yes - (R), (P)	No	No
71-36-3	n-Butyl alcohol	Yes - (R), (P)	No	No
64-17-5	Ethyl alcohol	Yes - (R), (P)	No	No
57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Yes - (R), (P)	No	No
64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	Yes - (R), (P)	No	No
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	Yes - (P)	No	No
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-1-(2-hydroxy-5-nitrophenyl)azo-2-n	Yes - (P)	No	No

CAS #	Hazardous components	Stockholm
78-93-3	Methyl Ethyl Ketone	No
9004-70-0	Nitrocellulose	No
67-63-0	Isopropyl alcohol	No
71-36-3	n-Butyl alcohol	No
64-17-5	Ethyl alcohol	No

Safety Data Sheet

Product Number: 51-0042-01
Product Name: Ink, GP Black

Date: 12/10/2020
Revision: C

57206-81-2	Chromate(1-),bis1-(2-hydroxy-5-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	No
64611-73-0	Chromate(1-),bis1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-, sodium	No
57206-83-4	Chromate(1-),bis1-5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenylazo-2-naphthalenolato(2-)-,sodium	No
59307-49-2	Chromate(1-),1-(2-hydroxy-4-nitrophenyl)azo-2-naphthalenolato(2-)-1-(2-hydroxy-5-nitrophenyl)azo-2-n	No

Canadian WHMIS Classification:



CLASS B, DIVISION 2: Flammable Liquids

CLASS D, DIVISION 2, SUBDIVISION A: Very Toxic Materials (carcinogens, reproductive toxicity, etc.)

15.2 Chemical safety assessment

Section 16: Other information

Revision Date: 12/10/2020

Revision Notes: Revision B: Format updated to (EU) 2015/830.
Revision C: Updated Concentration Ranges in Section 3.2

Additional Information:

Company Disclaimer:

The information and recommendations contained herein are, to the best of BestCode's knowledge and belief, accurate and reliable as of the date issued. Because many factors may affect processing or application/use, BestCode recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, date and information furnished by BestCode hereunder are given gratis and BestCode assumes no obligation or liability for the description, designs, data and information given or results obtained. All such being given and accepted at your risk.