

Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) 2020/878

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

1.1 Product Identifier

Product Name: Ink, Alcohol Resistant Black
Registration Not Relevant (Mixture)

Product Code: **51-0032-01**

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
Serious Eye Damage/Eye Irritation, Category 2
Specific Target Organ Toxicity (single exposure), Category 3
Aquatic Toxicity (Chronic), Category 3

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)



Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black





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

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 - Ground/bond container and receiving equipment.

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.

P264 - Wash hands thoroughly after handling.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 - Use only outdoors or in a well-ventilated area.

P273 – Avoid release to the environment.

P235 - Keep cool.

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, us 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.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 - If eye irritation persists, get medical advice/attention.

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.

P501 - Dispose of contents/container in accordance with local regulations.

P403+233- Store container tightly closed in well-ventilated place.

P405 - Store locked up.



Date: 01/23/2023

Product 51-0032-01 Revision: 0

Number:

Product Name: Ink, Alcohol Resistant Black

2.3 Other Hazards

Section 3: Composition/information on ingredients

3.1 Substances:

3.2 Mixtures:

Name of Substance	Identifier	Concentration	GHS Classification
Methyl Ethyl Ketone	CAS No: 78-93-3	67.59-88.4%	Flam. Liq. 2: H225;
	EC No: 201-159-0		Eye Irrit. 2: H319;
	Index No: 606-002-00-3		STOT SE 3: H336;
	REACH Reg. No: 01-2119457290-43-xxxx		EUH066
Nitrocellulose	CAS No: 9004-70-0	1.625-5.625%	Explosive 1.1:H201
Withocenalose	EC No: NA	1.025 5.02570	STOT (SE)3:H335
	Index No: NA		H336
	Reach Reg. No: NA		11330
Isopropyl alcohol	CAS No: 67-63-0	0.625-2.625%	Flam. Liq. 2: H225
	EC No: 200-661-7		Eye Damage 2:
	Index No: 603-117-00-0		H319
	REACH Reg. No: 01-2119457558-25		STOT(SE)3: H336
			, ,
Acetic acid, ethyl ester	CAS No: 141-78-6	0.75-2.25%	Flam. Liq. 2: H225
	EC No: 205-500-4		Eye Damage 2:
	Index No: 607-022-00-5		H319
	REACH Reg. No: 01-2119475103-46		STOT(SE)3: H335
			H336
			EUH066
Diisobutyl ketone	CAS No:108-83-8	0.06-1.0%	Flam. Liq. 3:H226
	EC No:203-620-1		STOT(SE) 3:H335
	Index No:606-005-00-X		H336
	REACH Reg.No: 01-2119474441-41		
Cyclotetrasiloxane,	CAS No: 556-67-2	0.01-0.1%	Toxic Repro.2:H361
Octamethyl-	EC No: 203-620-1		Aquatic(C) 1:H410
	Index No: 014-018-00-1		H351f
	REACH Reg.No: 01-2119529238-36		



Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black

Section 4: First Aid Measures

4.1 Description of first aid measures

Inhalation Inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical aid. Get medical aid immediately. Remove from

exposure and move to fresh air immediately. Do NOT use mouth-to-mouth resuscitation. If breathed in, move person into fresh air. If not breathing give artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped

with a one-way valve or other proper respiratory medical device.

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15

minutes. Get medical aid. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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 skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash off with soap and plenty of water. Consult a physician. Get medical aid. Get medical aid

immediately.

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. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Rinse mouth with water. Consult a physician. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Call a poison control center.

4.2 Most Important symptoms and effects, both acute and delayed

Inhalation Lung irritation, Chest pain, Pulmonary edema. Inhalation studies on toluene have

demonstrated the development of inflammatory and ulcerous lesions of the penis,

prepuce, and scrotum in animals.

Eye contactNo Data AvailableSkin contactNo Data AvailableIngestionNo Data Available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor: Treat symptomatically and supportively. Move out of dangerous area. Consult

a physician. Show this safety data sheet to the doctor in attendance.



Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black

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 large fires, use water spray, fog or regular foam. Contact professional fire-fighters immediately. For small fires, use dry chemical, carbon dioxide, sand, earth, water spray or regular foam. Cool containers with flooding quantities of water until well after fire is out. 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. Use water spray, dry chemical, carbon dioxide, or appropriate foam. Use water spray, dry chemical, carbon dioxide, or chemical foam.

5.2 Special hazards arising from the substance or mixture

Use water spray to cool unopened containers. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Combustible liquid and vapor.

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. Do NOT use mouth-to-mouth resuscitation. Combustion generates toxic fumes. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. This chemical poses an explosion hazard. Flammable Solid. May burn rapidly with flare burning effect. May re-ignite after fire is extinguished. This material is an explosion hazard when exposed to heat, mechanical shock, friction or when agitated. Wear self-contained breathing apparatus for firefighting if necessary.

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



Date: 01/23/2023

Product 51-0032-01 Revision: (

Number:

Product Name: Ink, Alcohol Resistant Black

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. Use with adequate ventilation. Minimize dust generation and accumulation. Material is heat, shock and/or friction sensitive. Use care in handling and storage. Take precautionary measures against static discharges. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.



Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black

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 away from heat, sparks and flame. Keep from contact with oxidizing materials. Keep away from strong acids. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Handle and store under inert gas. Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry place.

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)	TWA: 445 mg/m3 (150 ppm)
			STEL: 590 mg/m3 (200 ppm)	STEL: 890 mg/m3 (300 ppm)
108-83-8	Diisobutyl ketone	TLV: 25 ppm	TWA: 290 mg/m3 (50 ppm)	TWA: 145 mg/m3 (25 ppm) STEL: ()

CAS#	Hazardous components	Belgium OEL	California, USA	Ontario, CA
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m3	TWA: 590 mg/m3	TWA: 200 ppm
		(200 ppm)	(200 ppm)	STEL: 300 ppm
		STEL: 900 mg/m3	STEL: 885 mg/m3	
		(300 ppm)	(300 ppm)	
108-83-8	Diisobutyl ketone	TWA: 147 mg/m3	TWA: 150 mg/m3	TWA: 25 ppm
		(25 ppm)	(25 ppm)	

CAS#	Hazardous components	China	Québec, CA	German AGS
78-93-3	Methyl Ethyl Ketone	TWA: 300 mg/m3	TWA: 150 mg/m3	TWA: 600 mg/m3
		STEL: 600 mg/m3	(50 ppm)	(200 ppm)
		(15 min)	STEL: 300 mg/m3	STEL: 600 mg/m3
			(100 ppm)	(200 ppm) (15 min)



Date: 01/23/2023

Product 51-0032-01 Revision: 0

Number:

Product Name: Ink, Alcohol Resistant Black

108-83-8	Diisobutyl ketone	TWA: 145 mg/m3	TWA: 145 mg/m3	
			(25 ppm)	

CAS#	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL
78-93-3	Methyl Ethyl Ketone	TWA: 295 mg/m3 (100 ppm) STEL: 600 mg/m3 (200 ppm) (30min) (4x)	TWA: 145 mg/m3 (50 ppm) STEL: 290 mg/m3 (100 ppm)	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm)
108-83-8	Diisobutyl ketone	TWA: 290 mg/m3 (50 ppm)	TWA: 150 mg/m3 (25 ppm) STEL: 300 mg/m3 (50 ppm)	TWA: 148 mg/m3 (25 ppm)

CAS#	Hazardous components	Europe	Finland OEL	France VL
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m3	STEL: 300 mg/m3	TWA: 600 mg/m3
		(200 ppm)	(100 ppm) (15 min)	(200 ppm)
		STEL: 900 mg/m3		STEL: 900 mg/m3
		(300 ppm)		(300 ppm)
108-83-8	Diisobutyl ketone		TWA: 150 mg/m3	TWA: 250 mg/m3 (25
			(25 ppm)	ppm)
			STEL: 240 mg/m3	
			(40 ppm) (15 min)	

CAS#	Hazardous components	Hungary OEL	Ireland OEL	Italy OEL
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m3	TWA: 600 mg/m3	TWA: 600 mg/m3
		STEL: 900 mg/m3	(200 ppm)	(200 ppm)
			STEL: 900 mg/m3	STEL: 900 mg/m3
			(300 ppm) (15 min)	(300 ppm)
108-83-8	Diisobutyl ketone		TWA: 150 mg/m3	
			(25 ppm)	

CAS#	Hazardous components	South Korea	Latvia OEL	Mexico OEL
78-93-3	Methyl Ethyl Ketone	TWA: 590 mg/m3	TWA: 200 mg/m3	TWA: 590 mg/m3
		(200 ppm)	(67 ppm)	(200 ppm)
		STEL: 885 mg/m3	STEL: 900 mg/m3	STEL: 885 mg/m3
		(300 ppm)	(300 ppm) (15 min)	(300 ppm)



Date: 01/23/2023

Product 51-0032-01 Revision: 0

Number:

Product Name: Ink, Alcohol Resistant Black

108-83-8	Diisobutyl ketone	TWA: 150 mg/m3	TWA: 145 mg/m3 (25
		(25 ppm)	ppm)
			STEL: ()

CAS#	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
78-93-3	Methyl Ethyl Ketone	TWA: 590 mg/m3	TWA: 200 ppm	TWA: 590 mg/m3
		(200 ppm)	STEL: 300 ppm	STEL: 900 mg/m3
108-83-8	Diisobutyl ketone	TWA: 145 mg/m3	TWA: 150 mg/m3	
		(25 ppm)	(25 ppm)	

CAS#	Hazardous components	New Zealand	OSHA PELs	Poland
78-93-3	Methyl Ethyl Ketone	TWA: 445 mg/m3	PEL: 200 ppm	TWA: 450 mg/m3
		(150 ppm)		STEL: 900 mg/m3
		STEL: 890 mg/m3		
		(300 ppm)		
108-83-8	Diisobutyl ketone	TWA: 145 mg/m3	PEL: 50 ppm	TWA: 150 mg/m3
		(25 ppm)		STEL: 300 mg/m3

CAS#	Hazardous components	Sweden OEL	Singapore	Britain EH40
78-93-3	Methyl Ethyl Ketone	TWA: 150 mg/m3	TWA: 590 mg/m3	TWA: 600 mg/m3
		(50 ppm)	(200 ppm)	(200 ppm)
		STEL: 300 mg/m3	STEL: 885 mg/m3	STEL: 899 mg/m3
		(100 ppm) (15 min)	(300 ppm)	(300 ppm)
108-83-8	Diisobutyl ketone		TWA: 145 mg/m3	
			(25 ppm)	

CAS#	Hazardous components	Switzerland OEL	Japan OEL	
78-93-3	Methyl Ethyl Ketone			
108-83-8	Diisobutyl ketone	TWA: 150 mg/m3		
		(25 ppm)		

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. Use adequate general



Date: 01/23/2023

Product 51-0032-01 Revision: C

Number:

Product Name: Ink, Alcohol Resistant Black

or local explosion-proof ventilation to keep airborne levels to acceptable levels. Use adequate ventilation to keep airborne concentrations low. Use explosion-proof ventilation equipment. Use only under a chemical fume hood.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/Face protection: Wear chemical splash 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.

Face shield and safety glasses.

Skin protection: Wear appropriate protective gloves to prevent skin exposure. Handle

with gloves. Wear appropriate protective clothing to prevent skin exposure. Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

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. 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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN

(EU).

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:	5.48	Melting point:	-90.0 C - 135.00 C
Boiling range:	80.0 C - 171.00 C	Flash point:	>-7.0 C
Evaporation rate:	4.6 (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:	0.898 (H2O = 1 @ 20 °C)



Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black

Solubility(ies):	Miscible	Partition coefficient n-octanol/water:	No data available
Auto-ignition	>345.00 C	Decomposition	No data available
temperature:		temperature:	
Viscosity:	No data available		No data available
Explosive properties:	> 70.0% Volatile by volume.		
Oxidizing properties:	No data available		

9.2 Other information:

Miscibility:	No data available	VOC:	No data available
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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

Vapors may form explosive mixture with air.

10.4 Conditions to avoid:

ignition sources, Excess heat, dust generation, temperatures above 55°C, mechanical shock, Heat, flames and sparks. Incompatible materials, Strong oxidants.

10.5 Incompatible materials:

Strong oxidizing agents, Strong acids, 2-propanol, Strong oxidizing agents. Strong bases, Aluminum.

10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide, oxides of nitrogen, formed under fire conditions. Carbon oxides, Hydrogen chloride, 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:



Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black

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.

Corrosion/irritation: Skin corrosion/irritation.

Result: Tumorigenic: Tumors at site or application. No skin irritation.(OECD

Test Guideline 404) Serious eye damage/eye irritation Eyes-Rabbit)

Irritating to eyes.

Sensitization: No data available

Chronic Toxicology Specific target organ toxicity – single exposure: May cause drowsiness or

dizziness

Effects: Specific target organ toxicity – repeated exposure: no data available.

Carcinogenicity/other

Information:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by

IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to

NTP. No component of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential 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.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

11.1.1 Hazard Class information:



Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black

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:

No data available

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:

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:

No data available.

12.2 Persistence and degradability:

No data available

12.3 Bioaccumulative potential:

No data available.

12.4 Mobility in soil:



Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black

No data available

12.5 Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

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). RCRA U-Series: None listed. Product.

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging.

Dispose of as unused product.

Section 14: Transport information

UN number:	1210
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]
Transport hazard class(es):	3 - FLAMMABLE LIQUID



Date: 01/23/2023

Product 51-0032-01 Revision: 0

Number:

Product Name: Ink, Alcohol Resistant Black

14.4	Packing group:	II
14.5	Environmental hazards:	N/A
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	
108-83-8	Diisobutyl ketone	No	No	No	

CAS#	Hazardous components	Canadian NPRI	Canadian	Canadian DSL
			Toxic	
78-93-3	Methyl Ethyl Ketone	Yes	No	Yes
9004-70-0	Nitrocellulose	No	No	Yes
108-83-8	Diisobutyl ketone	No	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
108-83-8	Diisobutyl ketone	No	No	Yes - Inv

CAS#	Hazardous components	CA Prop 65	Mexico	Australia ICS
			INSQ	
78-93-3	Methyl Ethyl Ketone	No	Yes - 1193	Listed
9004-70-0	Nitrocellulose	No	Yes	Listed
108-83-8	Diisobutyl ketone	No	Yes - 1157	Listed

CAS#	Hazardous components	New Zealand	China IECSC	Japan ENCS
		IOC		
78-93-3	Methyl Ethyl Ketone	Listed	Listed	Yes - 2-542
9004-70-0	Nitrocellulose	Listed	Listed	Yes – 8-176
108-83-8	Diisobutyl ketone	Listed	Listed	Yes - 2-2475



Date: 01/23/2023

Product 51-0032-01 Revision: 0

Number:

Product Name: Ink, Alcohol Resistant Black

CAS#	Hazardous components	Japan ISHL	Korea ECL	Philippines
78-93-3	Methyl Ethyl Ketone	Listed	Yes KE-24094	Listed
9004-70-0	Nitrocellulose	No	Yes KE-25980	Listed
108-83-8	Diisobutyl ketone	Yes - 2-(8)-16	Yes KE-10907	Listed

CAS#	Hazardous components	Taiwan TCSCA	Singapore	Israel HSL:
			HSL	
78-93-3	Methyl Ethyl Ketone	Listed	No	No
9004-70-0	Nitrocellulose	Listed	No	No
108-83-8	Diisobutyl ketone	Listed	No	No

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
108-83-8	Diisobutyl ketone	Yes – 591	Yes G-1546	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
108-83-8	Diisobutyl ketone	Yes - (R), (P)	No	No

CAS#	Hazardous components	Stockholm	
78-93-3	Methyl Ethyl Ketone	No	
9004-70-0	Nitrocellulose	No	
108-83-8	Diisobutyl ketone	No	

Canadian WHMIS Classification:









CLASS B, DIVISION 2: Flammable Liquids

CLASS D, DIVISION 2, SUBDIVISION B: Toxic Materials (Mutagenicity, skin sensitization, irritation, etc.)

CLASS F: Dangerously Reactive Materials

CLASS D, DIVISION 1, SUBDIVISION A: Very Toxic Materials (low LD50 values)

15.2 Chemical safety assessment



Date: 01/23/2023

Product 51-0032-01 Revision:

Number:

Product Name: Ink, Alcohol Resistant Black

Section 16: Other information

Revision Date: 01/23/2023

Revision Notes: C: Updated Sections 1,2 and 3 for EU 2020/878

Additional Information:

Company Disclaimer:

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