

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: Makeup, Super Flex  
Product Code: 52-0026-01

### **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 2A  
Specific Target Organ Toxicity (single exposure), Category 3

### **2.2 Label elements**



Signal word: Danger

# Safety Data Sheet

Date: 7/18/2019  
Revision: B

Product Number: 52-0026-01  
Product Name: Makeup, Super Flex

## Hazard statements:

H225 - Highly flammable liquid and vapor.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.

## Precautionary statements:

P233 - Keep container tightly closed.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P240 - Ground/bond container and receiving equipment.  
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.  
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.  
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.  
P309+311 - Call a POISON CENTER or doctor/physician if exposed or you feel unwell.  
P403+235 - Store in cool/well-ventilated place.  
P501 - Dispose of contents/container in accordance with local regulations.  
P403+233 - Store container tightly closed in well-ventilated place.  
P405 - Store locked up.

## 2.3 Other Hazards

### Adverse Human Health Effects and Symptoms:

Ingredient CAS# 67-64-1, Acetone:

The toxicological properties of this material have not been fully investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

Ingredient CAS# 64-17-5, Ethyl alcohol:

Chronic: 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.

Ingredient CAS# 67-63-0, Isopropyl alcohol:

Prolonged or repeated skin contact may cause defatting and dermatitis.

## Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

### Inhalation:

Ingredient CAS# 64-17-5, Ethyl alcohol:

Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation.

Ingredient CAS# 67-63-0, Isopropyl alcohol:

Causes upper respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness.

### Skin Contact:

Ingredient CAS# 64-17-5, Ethyl alcohol:

Causes moderate skin irritation. May cause cyanosis of the extremities.

Ingredient CAS# 67-63-0, Isopropyl alcohol:

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.

### Eye Contact:

Ingredient CAS# 64-17-5, Ethyl alcohol:

Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage.

Ingredient CAS# 67-63-0, Isopropyl alcohol:

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.

### Ingestion:

Ingredient CAS# 64-17-5, Ethyl alcohol:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. 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.

Ingredient CAS# 67-63-0, Isopropyl alcohol:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. The probable oral lethal dose in humans is 240 ml (2696 mg/kg), but ingestion of only 20 ml (224 mg/kg) has, but in gestion of only 20 ml (224 mg/kg) has caused poisoning.

# Safety Data Sheet

Date: 7/18/2019  
Revision: B

Product Number: 52-0026-01  
Product Name: Makeup, Super Flex

## Section 3: Composition/information on ingredients

### 3.1 Substances:

### 3.2 Mixtures:

CAS #	EC #	Hazardous components / REACH Registration No.	Concentration	GHS Classification
67-64-1	200-662-2 606-001-00-8	Acetone	60.0 – 95.0%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; EUH066
64-17-5	200-578-6 603-002-00-5	Ethyl alcohol	10.0 -30.0 %	Flam. Liq. 2: H225
67-63-0	200-661-7 603-117-00-0	Isopropyl alcohol	0.1 -3.0 %	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H335 H336

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

**Inhalation** Ingredient CAS# 64-17-5, Ethyl alcohol:  
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Ingredient CAS# 67-63-0, Isopropyl alcohol:  
If inhaled, remove to fresh air.

**Eyes:** Ingredient CAS# 64-17-5, Ethyl alcohol:  
Get medical aid. Gently lift eyelids and flush continuously with water.

Ingredient CAS# 67-63-0, Isopropyl alcohol:  
In case of contact, immediately flush eyes with plenty of water for atleast 15 minutes.

**Skin:** Ingredient CAS# 64-17-5, Ethyl alcohol:  
Get medical aid. Wash clothing before reuse. Flush skin with plenty of soap and water.

Ingredient CAS# 67-63-0, Isopropyl alcohol:  
In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists.

# Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

**Ingestion:** Ingredient CAS# 64-17-5, Ethyl alcohol:  
Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Ingredient CAS# 67-63-0, Isopropyl alcohol:  
Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward.

## 4.2 Most Important symptoms and effects, both acute and delayed

<b>Inhalation</b>	No Data Available
<b>Eye contact</b>	No Data Available
<b>Skin contact</b>	No Data Available
<b>Ingestion</b>	No Data Available

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to doctor:** Ingredient CAS# 67-64-1, Acetone:  
Treat symptomatically and supportively.

Ingredient CAS# 64-17-5, Ethyl alcohol:  
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.  
Ingredient CAS# 67-63-0, Isopropyl alcohol:  
Urine acetone test may be helpful in diagnosis. Hemodialysis should be considered in severe intoxication.

## Section 5: Fire Fighting Measures

### 5.1 Extinguishing media

Ingredient CAS# 64-17-5, Ethyl alcohol:  
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. Water may be ineffective. Do NOT use straight streams of water.

Ingredient CAS# 67-63-0, Isopropyl alcohol:  
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.

## 5.2 Special hazards arising from the substance or mixture

## 5.3 Advice for firefighters

Ingredient CAS# 64-17-5, Ethyl alcohol:

Replace fluid and electrolytes. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

Ingredient CAS# 67-63-0, Isopropyl alcohol:

Flammable liquid and vapor. May form explosive peroxides. 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.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Evacuate the area

#### 6.1.2 For emergency responders

Use proper personal protective equipment as indicated in Section 8.

### 6.2 Environmental Precautions

No data available.

### 6.3 Methods and material for containment and cleaning up

#### 6.3.1 For Containment:

#### 6.3.2 Clean up and disposal of spill:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Use water spray to dilute spill to a non-flammable mixture. Clean up spills immediately, observing precautions in the Protective Equipment section.

## **Section 7: Handling and storage**

### **7.1 Precautions for safe handling**

Ingredient CAS# 64-17-5, Ethyl alcohol:

Wash thoroughly after handling. Use only in a well-ventilated area. 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. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Ingredient CAS# 67-63-0, Isopropyl alcohol:

Remove contaminated clothing and wash before reuse. Take precautionary measures against static discharges. Use only with adequate ventilation. Avoid breathing dust, mist, or vapor. Do not allow to evaporate to near dryness.

### **7.2 Conditions for safe storage, including any compatibilities**

Ingredient CAS# 64-17-5, Ethyl alcohol:

Keep away from heat, sparks and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

Ingredient CAS# 67-63-0, Isopropyl alcohol:

Do not store in direct sunlight. 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.

### **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.

# Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

## Section 8: Exposure control/personal protection

### 8.1 Control parameters

CAS #	Hazardous components	ACGIH TLV	Australia	Austria
67-64-1	Acetone	TLV: 500 ppm STEL: 750 ppm	TWA: 1200 mg/m3 (500 ppm) STEL: 4800 mg/m3 (2000 ppm)	TWA: 1185 mg/m3 (500 ppm) STEL: 2375 mg/m3 (1000 ppm)
64-17-5	Ethyl alcohol	TLV: 1000 ppm	TWA: 1900 mg/m3 (1000 ppm) STEL: 3800 mg/m3 (2000 ppm)	TWA: 1880 mg/m3 (1000 ppm) STEL: ()
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)

CAS #	Hazardous components	Belgium OEL	California, USA PELs	Ontario, CA
67-64-1	Acetone	TWA: 1210 mg/m3 (500 ppm) STEL: 2420 mg/m3 (1000 ppm)	TWA: 1200 mg/m3 (500 ppm) STEL: 1780 mg/m3 (750 ppm) CEIL: 3000 ppm	TWA: 500 ppm STEL: 750 ppm
64-17-5	Ethyl alcohol	TWA: 1907 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000 ppm)	STEL: 1000 ppm
67-63-0	Isopropyl alcohol	TWA: 500 mg/m3 (200 ppm) STEL: 1000 mg/m3 (400 ppm)	TWA: 980 mg/m3 (400 ppm) STEL: 1225 mg/m3 (500 ppm)	TWA: 200 ppm STEL: 400 ppm

CAS #	Hazardous components	China	Québec, CA	German AGS
67-64-1	Acetone		10 mg/m3 TWA <sub>EV</sub>	
64-17-5	Ethyl alcohol		TWA: 1880 mg/m3 (1000 ppm)	TWA: 960 mg/m3 (500 ppm) STEL: 1920 mg/m3 (1000 ppm) (15 min)
67-63-0	Isopropyl alcohol	TWA: 350 mg/m3 STEL: 700 mg/m3 (15 min)	TWA: 983 mg/m3 (400 ppm) STEL: 1230 mg/m3 (500 ppm)	TWA: 500 mg/m3 (200 ppm) STEL: 1000 mg/m3 (400 ppm) (15 min)



# Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

CAS #	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL
67-64-1	Acetone	TWA: 1200 mg/m <sup>3</sup> (500 ppm) STEL: 4800 m <sup>3</sup> /m <sup>3</sup> (15min) (4x) (2000 ppm (15min)(4x))	TWA: 600 mg/m <sup>3</sup> (250 ppm) STEL: 1200 mg/m <sup>3</sup> (500 ppm)	TWA: 1210 mg/m <sup>3</sup> (500 ppm)
64-17-5	Ethyl alcohol	TWA: 1900 mg/m <sup>3</sup> (1000 ppm) STEL: 3800 mg/m <sup>3</sup> (2000 ppm) (60min) (3x) TWA: 960 mg/m <sup>3</sup> (500 ppm)	TWA: 1900 mg/m <sup>3</sup> (1000 ppm) STEL: 3800 mg/m <sup>3</sup> (2000 ppm)	STEL: 1910 mg/m <sup>3</sup> (1000 ppm)
67-63-0	Isopropyl alcohol	TWA: 500 mg/m <sup>3</sup> (200 ppm) STEL: 2000 mg/m <sup>3</sup> (15/30min)(4x) (800 ppm (15/30min) (4x))	TWA: 500 mg/m <sup>3</sup> (200 ppm) STEL: 980 mg/m <sup>3</sup> (400 ppm)	TWA: 500 mg/m <sup>3</sup> (200 ppm) STEL: 1000 mg/m <sup>3</sup> (400 ppm)

CAS #	Hazardous components	Europe	Finland OEL	France VL
67-64-1	Acetone	TWA: 1210 mg/m <sup>3</sup> (500 ppm)		TWA: 1210 mg/m <sup>3</sup> (500 ppm) STEL: 2420 mg/m <sup>3</sup> (1000 ppm)
64-17-5	Ethyl alcohol		TWA: 1900 mg/m <sup>3</sup> (1000 ppm) STEL: 2500 mg/m <sup>3</sup> (1300 ppm) (15 min)	TWA: 1900 mg/m <sup>3</sup> (1000 ppm) STEL: 9500 mg/m <sup>3</sup> (5000 ppm)
67-63-0	Isopropyl alcohol		TWA: 500 mg/m <sup>3</sup> (200 ppm) STEL: 620 mg/m <sup>3</sup> (250 ppm) (15 min)	STEL: 980 mg/m <sup>3</sup> (400 ppm)

CAS #	Hazardous components	Hungary OEL	Ireland OEL	Italy OEL
67-64-1	Acetone	TWA: 1210 mg/m <sup>3</sup> STEL: 2420 mg/m <sup>3</sup>	TWA: 1210 mg/m <sup>3</sup> (500 ppm)	TWA: 1210 mg/m <sup>3</sup> (500 ppm)
64-17-5	Ethyl alcohol	TWA: 1900 mg/m <sup>3</sup> STEL: 7600 mg/m <sup>3</sup>	STEL: 1000 ppm (15 min)	
67-63-0	Isopropyl alcohol	TWA: 500 mg/m <sup>3</sup>	TWA: 200 ppm	



# Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

		STEL: 2000 mg/m3	STEL: 400 ppm (15 min)	
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CAS #	Hazardous components	South Korea	Latvia OEL	Mexico OEL
67-64-1	Acetone	TWA: 1188 mg/m3 (500 ppm) STEL: 1782 mg/m3 (750 ppm)	TWA: 1210 mg/m3 (500 ppm)	TWA: 2400 mg/m3 (1000 ppm) STEL: 3000 mg/m3 (1260 ppm)
64-17-5	Ethyl alcohol	TWA: 1900 mg/m3 (1000 ppm)	TWA: 1000 mg/m3	TWA: 1900 mg/m3 (1000 ppm) STEL: ()
67-63-0	Isopropyl alcohol	TWA: 480 mg/m3 (200 ppm) STEL: 980 mg/m3 (400 ppm)	TWA: 350 mg/m3 STEL: 600 mg/m3 (15 min)	TWA: 980 mg/m3 (400 ppm) STEL: 1225 mg/m3 (500 ppm)

CAS #	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
67-64-1	Acetone	TWA: 1187 mg/m3 (500 ppm)	TWA: 250 ppm	TWA: 1210 mg/m3 STEL: 2420 mg/m3
64-17-5	Ethyl alcohol	TWA: 1880 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000 ppm)	TWA: 260 mg/m3 STEL: 1900 mg/m3
67-63-0	Isopropyl alcohol	TWA: 983 mg/m3 (400 ppm)	TWA: 980 mg/m3 (400 ppm) STEL: 1225 mg/m3 (500 ppm)	

CAS #	Hazardous components	New Zealand	OSHA PELs	Poland
67-64-1	Acetone	TWA: 1185 mg/m3 (500 ppm) STEL: 2375 mg/m3 (1000 ppm)	PEL: 1000 ppm	TWA: 600 mg/m3 STEL: 1800 mg/m3
64-17-5	Ethyl alcohol	TWA: 1880 mg/m3 (1000 ppm)	PEL: 1000 ppm	TWA: 1900 mg/m3
67-63-0	Isopropyl alcohol	TWA: 983 mg/m3 (400 ppm) STEL: 1230 mg/m3 (500 ppm)	PEL: 400 ppm	TWA: 900 mg/m3 STEL: 1200 mg/m3

# Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

CAS #	Hazardous components	Sweden OEL	Singapore	Britain EH40
67-64-1	Acetone	TWA: 600 mg/m <sup>3</sup> (250 ppm) STEL: 1200 mg/m <sup>3</sup> (500 ppm) (15 min)	TWA: 1780 mg/m <sup>3</sup> (750 ppm) STEL: 2380 mg/m <sup>3</sup> (1000 ppm)	TWA: 1210 mg/m <sup>3</sup> (500 ppm) STEL: 3620 mg/m <sup>3</sup> (1500 ppm)
64-17-5	Ethyl alcohol	TWA: 1000 mg/m <sup>3</sup> (500 ppm) STEL: 1900 mg/m <sup>3</sup> (1000 ppm) (15 min)	TWA: 1880 mg/m <sup>3</sup> (1000 ppm)	TWA: 1920 mg/m <sup>3</sup> (1000 ppm) STEL: ()
67-63-0	Isopropyl alcohol	TWA: 350 mg/m <sup>3</sup> (150 ppm) STEL: 600 mg/m <sup>3</sup> (250 ppm) (15 min)	TWA: 983 mg/m <sup>3</sup> (400 ppm) STEL: 1230 mg/m <sup>3</sup> (500 ppm)	TWA: 999 mg/m <sup>3</sup> (400 ppm) STEL: 1250 mg/m <sup>3</sup> (500 ppm)

CAS #	Hazardous components	Switzerland OEL	Japan OEL	Spain
67-64-1	Acetone	TWA: 1200 mg/m <sup>3</sup> (500 ppm) STEL: 2400 mg/m <sup>3</sup> (1000 ppm)	TWA: 750 ppm	
64-17-5	Ethyl alcohol			
67-63-0	Isopropyl alcohol	TWA: 500 mg/m <sup>3</sup> (200 ppm) STEL: 1000 mg/m <sup>3</sup> (400 ppm)		

## 8.2 Exposure controls:

### 8.2.1 Appropriate engineering controls:

Use explosion-proof ventilation equipment. 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.

### 8.2.2 Individual protection measures, such as personal protective equipment

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

#### Eye/Face protection:

Ingredient CAS# 64-17-5, Ethyl alcohol:

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.



# Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

Ingredient CAS# 67-63-0, Isopropyl alcohol:  
Wear chemical splash goggles.

**Skin protection:**

Ingredient CAS# 64-17-5, Ethyl alcohol:  
Wear appropriate protective gloves to prevent skin exposure.

Ingredient CAS# 67-63-0, Isopropyl alcohol:  
Wear appropriate gloves to prevent skin exposure.

Wear appropriate protective clothing to prevent skin exposure.

**Respiratory protection:**

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

<b>Appearance:</b>	Clear Liquid (Upon aging, clear or colorless fluids may develop a slight yellow tint which will not affect the product performance).		
<b>Odor:</b>	Solvent	<b>Odor threshold:</b>	No data available
<b>pH:</b>	No data available	<b>Melting point:</b>	~ -139.00 C - -130.00 C
<b>Boiling range:</b>	~ 56.00 C - 82.00 C	<b>Flash point:</b>	-6.0°C
<b>Evaporation rate:</b>	-	<b>Upper Explosive Limit:</b>	-
		<b>Lower Explosive Limit:</b>	-
<b>Flammability:</b>	No data available	<b>Vapor Pressure:</b>	~ 185 MM_HG at 20.0 C
<b>Vapor density:</b>	> Air	<b>Relative Density:</b>	0.789 (H2O = 1 @ 20 °C)
<b>Solubility(ies):</b>	-	<b>Partition coefficient n-octanol/water:</b>	No data available
<b>Auto-ignition temperature:</b>	-	<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available		
<b>Explosive properties:</b>	> 99.0% Volatile by volume.		
<b>Oxidizing properties:</b>	No data available		

### 9.2 Other information:

<b>Miscibility:</b>	No data available	<b>VOC:</b>	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**

Will not occur

### **10.4 Conditions to avoid:**

Incompatible materials, ignition sources, Excess heat, oxidizers, Light, Exposure to moist air or water.

### **10.5 Incompatible materials:**

Strong oxidizing agents, acids, Alkali metals, Ammonia, hydrazine, Peroxides, Sodium, Acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine, pentafluoride, Perchloric acid, silver nitrate, mercuric nitrate, potassium tert-butoxide, magnesium perchlorate, Acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide, Strong acids, Strong bases, Amines, ethylene oxide, isocyanates, acetaldehyde, chlorine, phosgene, Attacks some forms of plastics, rubbers, and coatings. aluminum at high temperatures.

### **10.6 Hazardous decomposition products**

Carbon monoxide, irritating and toxic fumes and gases, Carbon dioxide.

## **Section 11: Toxicological information**

### **11.1 Information on Toxicological effects**

**Acute toxicity:** No data available.

**Skin corrosion/irritation:** No data available

**Serious eye** No data available

**damage/irritation:**

**Respiratory or skin** No data available

**sensitization:**

**Germ cell mutagenicity:** Mutagenic effects have occurred in experimental animals.

**Carcinogenicity:** Ingredient CAS# 67-64-1, Acetone:

CAS# 67-64-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Ingredient CAS# 64-17-5, Ethyl alcohol:

CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.



# Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

Ingredient CAS# 67-63-0, Isopropyl alcohol:  
CAS# 67-63-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

<b>Reproductive toxicity:</b>	No data available
<b>STOT-single exposure:</b>	No data available
<b>STOT-repeated exposure:</b>	No data available
<b>Aspiration hazard</b>	No data available

**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:**

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



# Safety Data Sheet

Date: 7/18/2019  
Revision: B

Product Number: 52-0026-01  
Product Name: Makeup, Super Flex

## **Section 12: Ecological information**

### **12.1 Toxicity:**

Ingredient CAS# 64-17-5, Ethyl alcohol:

Environmental: 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.

Ingredient CAS# 67-63-0, Isopropyl alcohol:

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.

### **12.2 Persistence and degradability:**

No data available

### **12.3 Bioaccumulative potential:**

No data available

### **12.4 Mobility in soil:**

No data available

### **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# 67-64-1: waste number U002 (Ignitable waste).



# Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

## Section 14: Transport information

14.1	UN number:	1210
14.2	Proper shipping name:	
	US DOT:	Printing Ink Related Material
	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
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)
67-64-1	Acetone	No	Yes 5000 LB	No
64-17-5	Ethyl alcohol	No	No	No
67-63-0	Isopropyl alcohol	No	No	Yes

CAS #	Hazardous components	Canadian NPRI	Canadian Toxic	Canadian DSL
67-64-1	Acetone	No	Yes	Yes
64-17-5	Ethyl alcohol	Yes	Yes	Yes
67-63-0	Isopropyl alcohol	Yes	Yes	Yes



# Safety Data Sheet

Product Number: 52-0026-01      Date: 7/18/2019  
 Product Name: Makeup, Super Flex      Revision: B

CAS #	Hazardous components	CAA HAP, ODC	CWA NPDES	TSCA
67-64-1	Acetone	No	No	Yes-Inv
64-17-5	Ethyl alcohol	No	No	Yes-Inv
67-63-0	Isopropyl alcohol	No	No	Yes-Inv

CAS #	Hazardous components	CA Prop 65	Mexico INSQ	Australia ICS
67-64-1	Acetone	No	Yes	Yes
64-17-5	Ethyl alcohol	No	Yes	Yes
67-63-0	Isopropyl alcohol	No	Yes-1219	Yes

CAS #	Hazardous components	New Zealand IOC	China IECSC	Japan ENCS
67-64-1	Acetone	Yes	Yes	Yes 2-542
64-17-5	Ethyl alcohol	Yes	Yes	Yes 5-153
67-63-0	Isopropyl alcohol	Yes	Yes	Yes 2-207

CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
67-64-1	Acetone	No	Yes KE-29367	Yes
64-17-5	Ethyl alcohol	No	Yes KE-13217	Yes
67-63-0	Isopropyl alcohol	Yes 2-(-8)-319	Yes KE-29363	Yes

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
67-64-1	Acetone	Yes	No	No
64-17-5	Ethyl alcohol	Yes	No	Yes – Cat.
67-63-0	Isopropyl alcohol	Yes	No	Yes – Cat.

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
67-64-1	Acetone	Yes – 6	Yes – G-1031	No
64-17-5	Ethyl alcohol	Yes – 96	Yes G-1158	Yes G-1158
67-63-0	Isopropyl alcohol	Yes – 135	Yes G-1712	No

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
67-64-1	Acetone	Yes – (R), (P)	No	No
64-17-5	Ethyl alcohol	Yes – (R), (P)	No	No
67-63-0	Isopropyl alcohol	Yes – (R), (P)	No	No

# Safety Data Sheet

Date: 7/18/2019

Product Number: 52-0026-01

Revision: B

Product Name: Makeup, Super Flex

CAS #	Hazardous components	Stockholm		
67-64-1	Acetone	No		
64-17-5	Ethyl alcohol	No		
67-63-0	Isopropyl alcohol	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:** 7/18/20109

**Revision Notes:** Format updated to (EU) 2015/830.

**Additional Information:**

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