

Kaspar Graphic Solutions  
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**Safety Data Sheet**  
**Material entity: KGS-CX**  
**Version 1.0 (10/2015)**

**SECTION 1 • COMPANY AND PRODUCT IDENTIFICATION**

<b>Manufacturer:</b> Kaspar Graphic Solutions 2185 HWY 292 Inman, SC 29349	<b>Emergency Phone:</b> (800) 424-9300 <b>Information Phone:</b> (336) 293-8667 <b>Synonyms:</b> KGS-CX
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**SECTION 2 • HAZARDS IDENTIFICATION**

**GHS Classification:**

**[ Health ]**

Acute toxicity, Oral (Category 4)  
Skin irritation (Category 2)  
Skin sensitization (Category 1)  
Aspiration hazard (Category 1)  
Serious eye damage/irritation (Category 2A)

**[ Physical ]**

Flammable Liquid (Category 4)

**GHS Label elements, including precautionary statements**

**Pictograms**



**Signal Word:** Danger

**Hazard Statements:**

Combustible liquid.  
May be fatal if swallowed and enters airways  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

Harmful if inhaled.

**Hazardous prevention measures:**

Keep away from flames and hot surfaces. -- No smoking.

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

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves and eye / face protection.

If swallowed: Immediately call Poison Control or a medical professional.

If on skin: Wash with plenty of soap and water.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call Poison Control or medical physician if victim feels unwell.

DO NOT induce vomiting.

If skin irritation occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents and container in accordance with local regulations.

**Other hazards:** The following percentage if the mixture consists of ingredient(s) with unknown acute toxicity: 50%

<b>SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS</b>
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<b>CHEMICAL NAME</b>	<b>CAS Number</b>	<b>%WT</b>
Octyl acetate	103-09-3	45-65%
Benzyl alcohol	100-51-6	20-35%
Naphtha, hydrotreated heavy		25-40%

The specific chemical identity and/or exact concentration of composition has been withheld as a trade secret.

#### SECTION 4 • FIRST AID MEASURES

**Eyes:** Flush with large amounts of cool running water for at least 15 minutes with eyelids forced open. Seek immediate medical attention.

**Skin:** Remove contaminated clothing. Wash exposed skin with soap and water. Seek immediate medical attention.

**Inhalation:** For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.

**Ingestion:** DO NOT induce vomiting. Danger of aspiration of vomit into the lungs can cause serious damage and chemical pneumonitis. Seek immediate medical attention.

**Most important symptoms/effects, acute and delayed:** Aspiration may cause pulmonary oedema and pneumonitis.

#### SECTION 5 • FIRE FIGHTING MEASURES

**Extinguishing Media:** To extinguish flames use water spray, dry chemical, carbon dioxide or fire fighting foam.

**Specific Hazards:** Static charges can accumulate and lead to a spark capable of starting a fire.

**Special Protective Equipment for Firefighters:** Exposure to products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6 • ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Note:** Review Fire Fighting Measures and Handling (Personnel) sections before proceeding with clean-up. Use appropriate Personal Protective Equipment during clean-up.

**Safeguards (Personnel):** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.

**Environmental Precautions:** Ventilate the area and stop source of spill, if safe to do so. Prevent product from entering drains. Clean contaminated floors and objects thoroughly while observing environmental regulations. Eliminate sources of ignition.

**Spill Cleanup:** Contain spill. Use absorbent material such as towels or absorbent powders. Collect and contain absorbent and dike material for disposal. Put all material into proper waste disposal container with lid tightly covered. Ventilate the area. Solvent soaked materials may spontaneously combust. Avoid contaminating ground and surface water.

**Accidental Release Measures:** Dispose of in accordance with local regulations.

## SECTION 7 · STORAGE AND HANDLING

**Precautions To Be Taken In Handling and Storage:** Avoid contact product. Do not breathe vapors or mist. Keep away from heat or flame.

Always store in tightly sealed, and properly labeled original container. Store in a cool, dry well-ventilated area, away from acute fire hazards. Use non-sparking tools. Keep away from food and drink. Wash hands after use.

**Handling (Physical):** Keep away from heat and sources of ignition. Avoid formation of aerosol.

**Other Precautions:** 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.

## SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Use explosion-proof ventilation equipment. Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

### **Exposure Guidelines:**

Octyl Acetate: No applicable data available

Benzyl alcohol: 10ppm                      8 & 12 hr. TWA

Naptha (hydrotreated heavy): No applicable data available

### **Personal Protective Equipment (PPE):**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** Wear impermeable clothing

**Hand Protection:** Material: Nitrile rubber

Break through time: 60 min

Permeation rate: 480 min

Glove thickness: 0.4 mm

Additional protection: Gloves should be inspected prior to use. Gloves should be discarded and replaced if there is any indication or degradation or chemical breakthrough. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn.

Respirator selection, use and maintenance should be in accordance with the requirements of OSHA

Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

**Other Equipment:** Adequate explosion proof ventilation to control airborne concentrations below the exposure limits. Eye wash station and drenching shower in close proximity to use are advised.

## SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** >62 °C (closed cup)

**Upper explosion limit:** 7.9% vol

**Autoignition Temperature:** no applicable data available

**Lower explosion limit:** 2.3% vol

**Specific Gravity:** 0.877

**Solubility in Water:** negligible

**Boiling Point Range:** 188-210 °C (370-410 °F)

**Volatile %:** 100%

**Melting Point:** no applicable data available

**Evaporation Rate (BuAc=1):** 1.1

**Vapor Pressure:** <1 hPa

**pH:** Not applicable

**Vapor Density:** no applicable data available

**Odor/Appearance:** Colorless liquid with sweet odor

## SECTION 10 • STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.

**Conditions to Avoid:** Keep away from heat, flame and other potential ignition sources.

**Reactivity:** No dangerous reaction known under normal use.

**Possibility of hazardous reactions:** Polymerization will not occur.

**Materials to Avoid:** Strong acids and oxidizers.

**Hazardous Decomposition Products:** Benzyl alcohol is slowly oxidized to benzaldehyde in the presence of air.

<b>SECTION 11 · TOXICOLOGICAL INFORMATION</b>
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Octyl acetate:

- Dermal LD50: >5000 mg/kg, Rabbit
- Oral LD50: 5140 mg/kg, Rat
- Eye irritation: none, Rabbit
- Skin irritation: severe skin irritation, Rabbit
- Skin sensitization: does not cause skin sensitization, human
- Repeated dose toxicity: oral, rat
  - Vapor
  - NOAEL: 25 mg/kg
  - LOAEL: 50 mg/kg method: No information available
  - Gastrointestinal effects, liver effects, information given is based on data obtained from similar substances
- Carcinogenicity: Not classifiable as a human carcinogen
  - Animal testing did not show any carcinogenic effects
  - Information given is based on data obtained from similar substances
- Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects
  - Animal testing did not show any mutagenic effects.
  - Information given is based on data obtained from similar substances.
- Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Benzyl Alcohol:

- Inhalation 4h ALC >1105 mg/l, Rat
- Approximate Lethal Concentration Respiratory tract irritation
- Dermal LD50 2000 mg/kg, Rabbit
- Oral LD50 1230 mg/kg, Rat
- Oral LD50 1040 mg/kg, Rabbit
- Breathing difficulties

Skin irritation	Slight or no skin irritation, Rabbit
Eye irritation	Irritating to eyes, Rabbit Moderate eye irritation
Skin sensitization	Positive in human patch test, Human
Repeated dose toxicity	Oral, Rat No significant effects were found
Carcinogenicity	Not classifiable as a human carcinogen Animal testing did not show any carcinogenic effects
Mutagenicity	Animal testing did not show any mutagenic effects Evidence suggests this substance does not cause genetic damage in animals Did not cause genetic damage in cultured bacterial cells Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others
Reproductive toxicity	No toxicity to reproduction Animal testing showed no reproductive toxicity
Teratogenicity	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity
Naphtha, hydrotreated heavy:	
Inhalation 4h LC50	>5.61 mg/l, Rat
Dermal LD50	>2000 mg/kg, Rabbit
Oral LD50	>5000 mg/kg, Rat
Skin irritation	Severe skin irritation, Rabbit
Eye irritation	No eye irritation, Rabbit
Skin sensitization	Does not cause skin sensitization, Guinea pig
Repeated dose toxicity	Inhalation, Rat Vapor NOAEL: > 20 mg/l Method: OECD Test Guideline 413 No toxicologically significant effects were found
Carcinogenicity	Not classifiable as a human carcinogen Overall weight of evidence indicated that the substance is not carcinogenic
Mutagenicity	Animal testing did not show any mutagenic effects Did not cause genetic damage in cultured bacterial cells

Reproductive toxicity	Did not cause genetic damage in cultured mammalian cells No toxicity to reproduction Animal testing showed no reproductive toxicity
Teratogenicity	Animal testing showed no developmental toxicity
Carcinogenicity	The carcinogenicity classification for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

<b>SECTION 12 • ECOLOGICAL INFORMATION</b>
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Aquatic toxicity

Octyl acetate:	Aquatic toxicity is unlikely due to low solubility	
Benzyl alcohol:	96 h LC50:	Oryzias latipes >100 mg/l
	96 h LC50:	Pimephales promelas 460 mg/l
	72 h EC50:	Pseudokirchneriella subcapitata 700 mg/l
	96 h EC50:	Scendesmus quadricauda > 360 mg/l
	h EC50:	Daphnia 230 mg/l
	14 d:	NOEC Oryzias latipes 5.1 mg/l
21 d:	NOEC Daphnia magna 51 mg/l	
Naptha, hydrotreated heavy:	96 h LC50:	Pimephales promelas 8.2 mg/l (calculated)
	72 h ErC50:	Selenastrum capricornutum 3.1 mg/l OECD Test Guideline 201
	72 h NOEC:	Selenastrum capricornutum 0.5 mg/l OECD Test Guideline 201
	48 h EC50:	Daphnia magna 4.5 mg/l OECD Test Guideline 202
	21 d:	NOEC Fish (unspecified species) 2.6 mg/l OECD Test Guideline 204
	21 d:	NOEC Daphnia magna 2.6 mg/l OECD Test Guideline 211

Environmental Fate



Octyl acetate:

Biodegradability: rapidly biodegradable OECD Test Guideline 301  
Readily biodegradable

Benzyl alcohol:

Biodegradability: readily biodegradable

### SECTION 13 · DISPOSAL CONSIDERATIONS

Waste disposal methods: If recycling is not practicable, dispose of in compliance with local regulations.

Never place unused product down any drain.

Waste disposal methods: Contaminated/not cleaned containers should be treated/handled like product waste.

Dispose of container properly

Refer to applicable local, state and federal regulations as well as industry standards.

Contaminated packaging: No applicable data available

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 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### SECTION 14 · TRANSPORTATION

**Not classified as dangerous in the meaning of transport regulations.**

### SECTION 15 · REGULATORY INFORMATION

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

**SARA Section 313 (40 CFR 372) Hazard Categories:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**PA Right to Know**

**Regulated Chemicals:** Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):

Aliphatic alcohol, Aliphatic Esters

This product contains proprietary ingredient(s).

**California Prop 65:** This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

<b>SECTION 16 • OTHER INFORMATION</b>
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**MSDS Revision Date:** October 2015

**National Fire Protection Association (NFPA) Ratings:** *This information is intended solely for the use of individuals trained in the NFPA system.*

**Health:** 2

**Flammability:** 2

**Reactivity:** 0

The information contained on this Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive or fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.