

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : SUTURE SEAL

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

Use of the substance/mixture : Embalming external sealing composition

Use of the substance/mixture : For professional use only

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

THE CHAMPION COMPANY  
400 Harrison Street  
Springfield, Ohio 45505

Telephone No. (937) 324-5681

#### 1.4. Emergency telephone number

INFOTRAC: 1-800-535-5053 DOMESTIC or 352-323-3500 INTERNATIONAL

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flam. Liq. 2 H225

Eye Irrit. 2A H319

STOT SE 3 H336

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS02

GHS07

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapor  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground container and receiving equipment  
P241 - Use explosion-proof electrical, ventilating, lighting, and equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P261 - Avoid breathing dust, fume, mist, spray, vapors  
P264 - Wash hands thoroughly after handling  
P271 - Use only in a well-ventilated area  
P280 - Wear protective clothing, protective gloves, eye protection, face protection  
P285 - In case of inadequate ventilation wear respiratory protection  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a POISON CENTER  
P337+P313 - If eye irritation persists: get medical attention  
P370+P378 - In case of fire: Use alcohol resistant foam, dry powder, carbon dioxide (CO<sub>2</sub>) to extinguish  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P403+P235 - Store in a well-ventilated place. Keep cool

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P405 - Store locked up  
P501 - Dispose of contents and container to comply with applicable local, state, national and international regulation

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Acetone	(CAS No) 67-64-1	30 - 35	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm and rested. In case of breathing difficulties administer oxygen. by trained personnel. Seek medical attention immediately. If breathing stops, give artificial respiration. Transfer to hospital rapidly. Call a doctor. Maintain an open airways.
First-aid measures after skin contact	: Wash immediately with lots of water for at least 15 minutes. Remove all contaminated clothing and footwear. If skin irritation occurs: Get medical attention.
First-aid measures after eye contact	: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Seek medical attention immediately.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Immediately call a POISON CENTER. Do not induce vomiting as there is high risk of aspiration. Obtain emergency medical attention. Seek medical advice (show the label where possible).

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

Symptoms/injuries after inhalation	: May cause drowsiness or dizziness. Difficulty in breathing. Vomiting. Inhalation of mist or aerosol may cause irritation to nose and throat . Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
Symptoms/injuries after skin contact	: Prolonged/repetitive skin contact may cause skin defatting or dermatitis. May be absorbed through the skin. Frequent or prolonged contact with skin may cause dermal irritation, redness or dry skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Inflammation. Can cause blindness.
Symptoms/injuries after ingestion	: Ingestion may cause nausea, vomiting and diarrhea. Can cause blindness. Swallowing can cause severe injury leading to death.

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

The affected person must rest and be kept under medical observation.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Alcohol resistant foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.

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### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent runoff from entering drains, sewers or waterways. Prevent fire-fighting water from entering environment. Cool closed containers exposed to fire with water spray.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Use water spray to cool unopened containers. Move undamaged containers from immediate hazard area if it can be done safely. On burning: release of carbon monoxide - carbon dioxide. unburned hydrocarbons. Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires.

## SECTION 6: Accidental release measures

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

- General measures : Stop leak if safe to do so. Avoid breathing dust, fume, mist, spray, vapors. Avoid contact with skin, eyes and clothing. Use special care to avoid static electric charges. No naked lights. No smoking. Eliminate all ignition sources if safe to do so.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Avoid breathing dust, fume, mist, spray, vapors. Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

- Methods for cleaning up : Keep upwind of the spilled material and isolate exposure . Do NOT touch spilled material. Cleanup personnel must be trained in the safe handling of this product. If possible ventilate area by means of non-sparking, grounded ventilation system. Spills may be absorbed on non-reactive absorbents such as vermiculite. Place cells into individual plastic bags and then place into appropriate containers and close tightly for disposal. Ensure that cleanup procedures do not expose spilled material to any moisture. Immediately transport closed containers outside. Do not absorb in sawdust, paper, cloth or other combustible absorbents. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Contain large spillage with sand or earth. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Eliminate all sources of ignition, avoid sparks, flames and do not smoke in risk area. Shovel into suitable and closed container for disposal. Store away from other materials. Ensure all local, state, national and international regulations are observed. Consult the appropriate authorities about waste disposal.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
- Precautions for safe handling : Work in a well-ventilated area. Avoid breathing dust, fume, mist, spray, vapors. Before entering storage tanks and commencing any operation in a confined area check the atmosphere for oxygen content and flammability. . Keep away from clothing as well as other incompatible materials. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Do not use compressed air to transfer, discharge or transport the product.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practices. Discard contaminated leather articles. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : A washing facility for eye and skin cleaning purposes should be present. Ensure adequate ventilation. Use explosion-proof electrical, ventilating, lighting, and equipment. Proper grounding procedures to avoid static electricity should be followed. Ground container and receiving equipment.
- Storage conditions : Keep out of reach of children. Store away from direct sunlight or other heat sources. Keep only in the original container in a cool, well ventilated place. Protect containers against physical damage. Keep in fireproof place. Keep container tightly closed.
- Incompatible materials : Strong acids, bases. Oxidizing agents. Copper and its alloys. Material may attack some forms of plastic, aluminium, rubber and coatings. Chlorine (Cl<sub>2</sub>). Amines.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Acetone (67-64-1)		
USA ACGIH	ACGIH TWA (ppm)	500 ppm
USA ACGIH	ACGIH STEL (ppm)	750 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

### 8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation. Monitoring the effectiveness of engineering control is recommended.
- Personal protective equipment : Avoid all unnecessary exposure. Wear protective clothing, protective gloves, eye protection/goggles, face protection. For certain operations, additional Personal Protection Equipment (PPE) may be required.
- Hand protection : Wear impermeable protective nitrile gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Eye protection : Contact lenses should not be worn. Chemical goggles and face shields are required to prevent potential eye contact, irritation or injury.
- Skin and body protection : Long sleeved protective clothing. Overall. Rubber apron, boots, safety foot-wear.
- Respiratory protection : In case of insufficient ventilation. Wear suitable respiratory equipment. Approved organic vapor respirator.
- Environmental exposure controls : Avoid discharge to the environment.
- Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear.
- Color : Colorless
- Odor : Slight sweet odor
- Odor threshold : No data available
- pH : No data available
- Relative evaporation rate (butyl acetate=1) : 6
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 56.11 °C ( 133 °F )
- Flash point : -6.66 °C (20 °F ) (COC)
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : 6.7 - 72 Flammability Limits in Air
- Vapor pressure : No data available

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Relative vapor density at 20 °C	: 1
Relative density	: No data available
Density	: 1.06 Specific Gravity
Solubility	: Water: Partially soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: 24 - 26
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions. Unstable on exposure to heat. May form flammable/explosive vapor-air mixture. Highly flammable liquid and vapor.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agents. Rubber or plastic material. Amines. Do not mix with other cleaners or chlorine bleach. Copper and its alloys.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Acetone (67-64-1)

LC50 inhalation rat (mg/l)	50100 mg/m <sup>3</sup> (Exposure time: 8 h)
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Skin corrosion/irritation : Not classified  
Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified  
Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met.

Carcinogenicity : Not classified  
Based on available data, the classification criteria are not met.

Reproductive toxicity : Not classified  
Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified  
Based on available data, the classification criteria are not met.

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Aspiration hazard	: Not classified Based on available data, the classification criteria are not met.
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness. Difficulty in breathing. Vomiting. Inhalation of mist or aerosol may cause irritation to nose and throat. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
Symptoms/injuries after skin contact	: Prolonged/repetitive skin contact may cause skin defatting or dermatitis. May be absorbed through the skin. Frequent or prolonged contact with skin may cause dermal irritation, redness or dry skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Inflammation. Can cause blindness.
Symptoms/injuries after ingestion	: Ingestion may cause nausea, vomiting and diarrhea. Can cause blindness. Swallowing can cause severe injury leading to death.

## SECTION 12: Ecological information

### 12.1. Toxicity

Acetone (67-64-1)	
LC50 fishes 1	4.74 - 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	10294 - 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	6210 - 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	12600 - 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and degradability

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Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

Acetone (67-64-1)	
BCF fish 1	0.69
Log Pow	-0.24

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations	: It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations. Dispose of contents and container to comply with applicable local, state, national and international regulation. Consult the appropriate authorities about waste disposal. Ensure all local, state, national and international regulations are observed. Do not pressurize, cut, weld, braze solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Do not re-use empty containers. Liquid product may not be disposed of with household waste or landfilled. Do not allow to enter into drains/waters or in the soil. Dispose in a safe manner in accordance with local, state, national and international regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment.

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### SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1090, Acetone, 3, PGI, ltd. qty.  
Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger  
DOT Packaging Exceptions (49 CFR 173.xxx) : 150  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L  
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

#### Additional information

Other information : No supplementary information available.

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

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RQ (Reportable quantity, section 304 of EPA's List of Lists) :	16000 lb
Acetone (67-64-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb

#### 15.2. International regulations

##### CANADA

Acetone (67-64-1)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

#### 15.2.2. National regulations

No additional information available

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### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

### HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible  
Flammability : 3 Serious Hazard  
Physical : 0 Minimal Hazard

SDS US (GHS HazCom 2012)

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