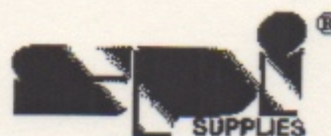


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# Material Safety Data Sheet

SPI #01050-AB SPI Bell Bright™ Bell Jar Spray

## Section 01 Identification

Date Effective..... December 20, 1998  
 (most recent revision)

Chemical Name/Synonyms... **SPI Bell Bright Spray**

Chemical family..... Ethyl alcohol major constituent. Product is described as being made up of 1) concentrate and 2) propellant. Composition of the concentrate is as follows: 80% ethyl alcohol, 5% polycarbonic resin, and 15% other inert ingredients.



**Emergencies**  
 Use Only #'s..... Contacting CHEMTREC 24 Hour Emergency  
 Worldwide phone : 1-(703)-527-3887  
 Worldwide FAX : 1-(703)-741-6090  
 Toll-free phone : 1-(800)-242-9300 USA only

Product or Trade Name.... SPI #01050-AB Bell Bright Spray  
 (Formulated for use with vacuum evaporators and other vacuum coaters not requiring exposure to heat)

CAS #..... 64-17-5 (for ethyl alcohol)

Chemical Formula..... CH<sub>3</sub>CH<sub>2</sub>OH

Information about propellant: A46 Blend, which consists of  
 • 85% isobutane CAS #75-28-5  
 • 15% propane CAS #74-98-6

This product is completely free of all known ozone depleting compounds.

NFPA (National Fire Protection Association) Rating (Scale 0-4):  
 HEALTH=1 FLAMMABILITY=3 REACTIVITY=0 OTHER=0 Not known

## Section 02 Physical Data

Boiling Point..... 760 mm Hg : 173° F (78.3°C)  
 Coeff. of Water/Oil Dist. NOT DETERMINED  
 pH (Liquids Only)..... NOT DETERMINED



% Volatile By Volume.....	90%
Vapor Pressure.....	mm Hg: Not known
Vapor Density/Air is 1...	Not known
Solubility In Water.....	Slightly
Appearance and Color.....	Product exists in form of aerosol and has no color in that form. As a liquid, which can not be seen, it is yellow to clear.
Specific Gravity.....	(H <sub>2</sub> O = 1): 0.83
Evaporation Rate.....	(n-butyl acetate = 1): Not known
Odor.....	No odor

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### Section 03 Fire And Explosion Hazard Data

Flash Point.....	4°C (130°F) (ASTM D-56-69)
Flammable Limits in Air.....	Flammable limit in air, % by vol.
LEL (Lower Explosive Limit) :	Not known
UEL (Upper Explosive Limit) :	Not known

Fire Extinguishing Media:  
Dry Chemical, CO<sub>2</sub>, foam

Special Firefighting Procedure..... Not normally necessary

Unusual Fire and Explosion Hazards:

Containers may build pressure at elevated temperature.  
If exposed to heat, if possible, containers should be cooled with a water spray.

Firefighting Procedure:  
Wear self-contained breathing apparatus.

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### Section 04 Reactivity Data

Stable: Yes

Hazardous Polymerization:  
Does not occur.

Hazardous Decomposition Products:  
CO<sub>2</sub> (Carbon Dioxide)

Conditions to avoid:

Heat, Contact with ignition source.

Materials to avoid:

Oxidizing materials. Store away from all ignition sources.

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### Section 05 Spill, Leak and Disposal Procedures

Spill Response:

A "spill" could only occur if a container was punctured. While there would be an immediate release of the contents, because of the vapor pressure, the volatiles would evaporate almost immediately, hence there would be nothing left to "clean up".

Disposal considerations:



Because of the above, there would be nothing left to dispose of except for the now completely empty and depressurized aerosol cans which could be discarded as any other non-hazardous metal can. However, in the unlikely event that there is actual liquid concentrate, in any case, do not flush down sewers or drains where danger of vapors becoming ignited is present.

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## Section 06 Health Hazard Data

Potential health effects (acute and chronic):

Symptoms of exposure:

Not known. However, the classic symptoms of exposure to alcohol in excess would include irritation of the eyes and respiratory tract; headache, dizziness, drowsiness, fatigue, nausea, tremor, narcosis

Medical condition aggravated by exposure:

Not known.

Routes of entry:

Mainly inhalation, but to a much lesser degree via ingestion or skin contact.

Carcinogenicity:

The material is not listed IARC- International Agency for Research on Cancer; NTP-National Toxicology Program; OSHA-Occupational Safety and Health Administration) as cancer causing agent. Not on "Z" list either.

Toxicity data:

Not known.

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## Section 07 First Aid Procedures And Physician Notes

Emergency and first aid procedures:

Get medical assistance for all cases of over-exposure.

Skin: Wash thoroughly with flowing water or shower.

Eyes: Immediately flush thoroughly with water for at least 15 minutes.

Inhalation: Remove to fresh air. Artificial respiration if breathing has stopped.

Ingestion: If conscious, drink water and induce vomiting. Immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

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## Section 08 Special Handling Information

Engineering Controls / Personal Protection:

None needed.

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## Section 09 Special Precautions and Additional Information



**Handling and Storage:**

Do not store neat heat of flame or other source of ignition (e.g. Electrical wiring or motors). We would also recommend storage away from direct sunlight in order to minimize the chances that radiant heat could cause the container temperature to rise and therefore, also the pressure to rise, shortening the shelf life of the product.

**Other:**

Store in cool dry well-ventilated area. Discard when expiration date passes. At some point after the expiration date, it is possible that the ingredients will cause a slow corrosion of the metal side-walls. We are unaware of any catastrophic failure, but what does seem to happen is that a small pin hole develops at which point there is just a very slow and steady release of the propellant and also the ingredients. The failure phenomenon is virtually identical, and of no more concern, than the failure of an old can of hair spray or shaving cream.

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**Section 10 Hazardous Ingredients**

Component	Appr %
Ethyl Alcohol	60

Bell Bright is considered a "flammable liquid":

UN #1170  
Packing Group II



DOT Class 3 Flammable Liquid  
Shipping Name: Ethyl alcohol (DOT) and Ethanol (IATA)

\*\*\*\*\*  
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