

**SAFETY DATA SHEET**

Issuing Date 10/8/17 Revision Date 10/14/14 Revision Number 0

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**

**GHS Product Identifier**

Product Name: Firm Hold Hair Spray

**Other means of Identification**

Synonyms: none

**Recommended use of the chemical and restrictions on use**

Recommended Use: No information available

Uses advised against: No information available

**Supplier's Details**

**Supplier Address**

Chicago Aerosol  
1300 North St.  
Coal City, IL 60416  
Tel: 815-634-5100

**Emergency telephone number**

Emergency Telephone Number 1-866-634-5100  
Chemtrec 1-800-424-9300

**2. HAZARD IDENTIFICATION**

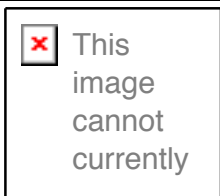
**Classification**

Serious Eye Damage/Eye Irritation	Category 2A
Carcinogenicity	Category 2
Specific Target Organ Systemic toxicity (Single Exposure)	Category 3
Simple Asphyxiant	Yes
Flammable Aerosols	Category 1
Gases Under Pressure	

**GHS label elements, including precautionary statements**

**EMERGENCY OVERVIEW**

<b>Signal Word</b>	<b>Danger</b>
<b>Hazard Statements</b>	
<ul style="list-style-type: none"> <li>• Causes serious eye irritation</li> <li>• Suspected of causing cancer</li> <li>• May cause respiratory irritation</li> <li>• May cause drowsiness or dizziness</li> <li>• Extremely flammable aerosol</li> </ul>	



**Appearance** Clear

**Physical State** Aerosol

**Odor** Odor Fragranced

**Precautionary Statements**

**Prevention**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Wash face, hands and any exposed skin thoroughly after handling.
- Wear eye/face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do not pierce or burn, even after use.

**General Advice**

- If exposed or concerned: Get medical attention/advice

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Storage**

- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Rapid evaporation of the liquid may cause frostbite.

**Other information**

May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Trade Secret
Ethyl Alcohol	64-17-5	< 55	*
1,1-Difluoroethane	75-37-6	< 45	*
2-Amino-2-Methyl-1-propanol	124-68-5	< 1.0	*

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

**4. FIRST AID MEASURES**

**Description of necessary first-aid measures**

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.

**Skin Contact** Wash off with warm water and soap. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. Get medical attention if symptoms occur.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** Eye irritation/reactions. Frostbite. Drowsiness. Dizziness. Simple asphyxiant.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol-resistant foam. Water fog.

**Unsuitable Extinguishing Media** No information available.

**Specific Hazards Arising from the Chemical**

No information available.

**Hazardous Combustion Products** Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

**Explosion Data**

**Sensitivity to Mechanical Impact** Yes

**Sensitivity to Static Discharge** Yes

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Contents under pressure. Remove all sources of ignition. Do not puncture or incinerate cans. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material

**Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers. Cover liquid spill with sand, earth or other noncombustible absorbent material. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**

**Storage** Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.

**Incompatible Products** Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol Ethyl Alcohol 64-17-5	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** No protective equipment is needed under normal use conditions. Risk of contact, wear: Safety glasses with side-shields.

**Skin and Body Protection** No protective equipment is needed under normal use conditions. Lightweight protective clothing. Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

Physical State                      Aerosol                                      Appearance                                      Clear  
 Odor                                      Fragranced                                      Odor Threshold                                      No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	Enter here
Melting Point/Range	No data available	Enter here
Boiling Point/Boiling Range	79.4 °C / 175 °F	for concentrate
Flash Point	18.3C/ 65F	Open cup ( for pure ethanol)
Evaporation rate	> 1	Enter here

<b>Flammability (solid, gas)</b>	No data available	Enter here
<b>Flammability Limits in Air</b>	No data available	Enter here
<b>upper flammability limit</b>	No data available	Enter here
<b>lower flammability limit</b>	No data available	Enter here
<b>Vapor Pressure</b>	45-55 psig @ 70 F	Enter here
<b>Vapor Density</b>	No data available	Enter here
<b>Specific Gravity</b>	0.81	water = 1
<b>Water Solubility</b>	No data available	Enter here
<b>Solubility in other solvents</b>	No data available	Enter here
<b>Partition coefficient: n-octanol/water</b>	No data available	Enter here
<b>Autoignition Temperature</b>	No data available	Enter here
<b>Decomposition Temperature</b>	No data available	Enter here
<b>Viscosity</b>	No data available	Enter here
<b>Flammable Properties</b>	Not Flammable	Enter here
<b>Explosive Properties</b>	No data available	Enter here
<b>Oxidizing Properties</b>	No data available	Enter here

**Other information**

**VOC Content (%)**                      55%

**10. STABILITY AND REACTIVITY**

**Reactivity**

Not reactive under normal conditions.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NOx).

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

**Inhalation**

May cause irritation of respiratory tract. May cause drowsiness and dizziness. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

**Eye Contact**

Contact with eyes may cause serious eye irritation based on the components present within the product.

**Skin Contact**

Contact with product may cause frostbite.

**Ingestion**

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl Alcohol	7060 mg/kg (Rat)	-	124.7 mg/L ( Rat) 4 h

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes. Avoid skin contact with leaking liquid (danger of frostbite).

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage. Vinyl acetate is identified by IARC and ACGIH as a potential carcinogen based on data in animal studies. Lifetime exposure to high vapor concentrations (600 ppm) of Vinyl acetate caused malignant and benign tumors of the respiratory tract of rats, but not in mice: this response possibly being associated with the irritant effect. Vinyl acetate has been tested for carcinogenic potential in rats in two separate drinking water studies. In one study, in which animals were exposed to concentrations up to 0.5% in water, there was no evidence of carcinogenicity. In the second study, conducted at higher concentrations (up to 1% in water), evidence of cancer in the stomach and oral cavities was observed. There is no evidence that vinyl acetate causes cancer in humans.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol	A3	Group 1	Known	X

**Reproductive Toxicity** No information available.  
**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

**Numerical measures of toxicity - Product**

*The following values are calculated based on chapter 3.1 of the GHS document:*  
**LD50 Oral** 8538 mg/kg; Acute toxicity estimate  
**LD50 Dermal** 23700 mg/kg; Acute toxicity estimate  
**Inhalation** mg/L; Acute toxicity estimate  
**Vapor** 134.2 mg/L; Acute toxicity estimate

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)

Ethyl Alcohol		LC50 96 h: 12.0-16.0mL/L	EC50=34634 mg?L 30 min	LC50 48h: 9268-14221 mg/L
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**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow
Ethyl alcohol	-0.32

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

**DOT**

Proper shipping name Consumer commodity  
 Hazard Class ORM-D  
 Description Consumer commodity, ORM-D  
 Emergency Response Guide Number 126

**TDG**

UN-Number UN1950  
 Proper Shipping Name Aerosols  
 Hazard Class 2.1  
 Description UN1950, Aerosols, 2.1

**MEX**

UN-Number UN1950  
 Proper Shipping Name Aerosols  
 Hazard Class 2.1  
 Description UN1950, Aerosols, 2.1

**ICAO**

UN-Number ID8000  
 Proper Shipping Name Consumer commodity  
 Hazard Class 9  
 Description ID8000, Consumer commodity, 9

**IATA**

UN-Number ID8000  
 Proper Shipping Name Consumer commodity  
 Hazard Class 9  
 ERG Code 9L  
 Description ID8000, Consumer commodity, 9

**IMDG/IMO**

UN-Number UN1950  
 Proper Shipping Name Aerosols  
 Hazard Class 2  
 EmS No. F-D, S-U  
 Description UN1950, Aerosols, 2.1 (18.3°C o.c.)

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA All components of this product are either listed or are exempt on the TSCA inventory.  
 DSL Substances comply or are exempt

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %

**SARA 311/312 Hazard Categories**

Acute Health Hazard Yes  
 Chronic Health Hazard Yes  
 Fire Hazard Yes  
 Sudden Release of Pressure Hazard Yes  
 Reactive Hazard No

**Clean Water Act**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances

**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ

**U.S. State Regulations**

**California Proposition 65**

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	CAS-No	California Prop. 65
Ethyl alcohol	64-17-5	Developmental

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Ethyl alcohol	X	X	X	-	
1,1-Difluoroethane	X	X			



**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION**

**NFPA**      **Health Hazard 2**      **Flammability 4**      **Instability 0**      **Physical and Chemical Hazards**

**HMIS**      **Health Hazard 2\***      **Flammability 4**      **Physical Hazard 0**      **Personal Protection X**

*\*Indicates a chronic health hazard.*

**Prepared By** Chicago Aerosol  
1300 North St  
Coal City, IL 60416  
1-800-572-6501

**Issuing Date** 9-Jun-15

**Revision Date** 9-Jun-15

**Revision Note** Initial Release.

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

**End of Safety Data Sheet**