1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name Chi 44 Iron Guard Style & Stay Firm Hold Protecting Spray

Other means of identification
Synonyms Hair Spray

Recommended use of the chemical and restrictions on use
Recommended Use Consumer use.
Uses advised against All other uses

Details of the supplier of the safety data sheet
Manufacturer Address Farouk Systems Inc.
250 Pennbright Drive
Houston, Texas 77090
Company Phone Number 1-800-237-9175
E-mail address regulatory@farouk.com

Emergency telephone number
Company Phone Number 1-800-237-9175
Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Emergency Overview

Appearance aqueous solution
Physical state Aerosol
Odor Pleasant

Hazards not otherwise classified (HNOC)
Other Information
No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS
Composition: The Complete ingredient list for the finished product(s) is as follows:
Alcohol Denat., Hydrofluorocarbon 152A, Octylacrylamide/Acrylates/Butylaminoethyl Methacrylate Copolymer, Aminomethyl Propanol, Simmondsia Chinensis (Jojoba) Seed Oil, Argania Spinosa (Argan) Kernel Oil, Hydrolyzed Silk, Tocopheryl (Vitamin E) Acetate, Retinyl (Vitamin A) Palmitate, PEG-12 Dimethicone, Phenyl Trimethicone, Panthenol, Alumina, Titanium Dioxide, Fragrance (Parfum), Benzyl Benzoate, Benzyl Salicylate, Citronellol, Coumarin, Hexyl Cinnamal, Limonene, Linalool

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>50% - 60%</td>
</tr>
<tr>
<td>1,1-Difluoroethane (Hydrofluorocarbon 152A)</td>
<td>75-37-6</td>
<td>40% - 50%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

**General advice**
When symptoms persist or in all cases of doubt seek medical advice.

**Eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. If discomfort of irritation persists, seek medical attention.

**Skin Contact**
If skin problems occur, discontinue use. If symptoms persist, seek medical attention.

**Inhalation**
Should overexposure occur or victim show signs of immediate distress, remove victim to fresh air.

**Ingestion**
Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms**
None known.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
CO2, dry chemical, dry sand, alcohol-resistant foam.

**Unsuitable extinguishing media**
Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**
Keep product and empty container away from heat and sources of ignition.

**Explosion data**
- **Sensitivity to Mechanical Impact**: None.
- **Sensitivity to Static Discharge**: May be ignited by heat, sparks or flames.

**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.

**Flash point**
No information available

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**
Personal precautions  Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions  Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

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

Methods for cleaning up  Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling  Keep out of Reach of Children. Avoid fire, flame or smoking during use. Do not crush, puncture or incinerate. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions  Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Protect from sunlight.

Incompatible materials  Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines  This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm, TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm, TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm, TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm, TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm, TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm, TWA: 1900 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Controls  None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection  No special technical protective measures are necessary.

Skin and body protection  No special technical protective measures are necessary.

Respiratory protection  If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations  Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
### Physical state
- **Appearance**: Aerosol
- **Color**: colorless

### Odor
- **Odor threshold**: Pleasant

### Other Information
- **Molecular weight**: No information available
- **VOC Content (%)**: < 55
- **Density**: No information available

### 10. STABILITY AND REACTIVITY

#### Reactivity
- No data available

#### 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
- To avoid thermal decomposition, do not overheat. Heat, flames and sparks. Extremes of temperature and direct sunlight.

#### Incompatible materials
- Strong oxidizing agents.

### Hazardous Decomposition Products
- Carbon monoxide. None known based on information supplied.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

##### Product Information
- **Inhalation**: Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
- **Eye contact**: No data available.
- **Skin Contact**: No data available.
CHIIIGSS10 Chi 44 Iron Guard Style & Stay Firm Hold Protecting Spray

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Ingestion

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>= 7060 mg/kg (Rat)</td>
<td>-</td>
<td>= 124.7 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

Information on toxicological effects

**Symptoms**

No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
</tbody>
</table>

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>100: 96 h Pimephales promelas mg/L LC50 static 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td>EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min</td>
<td>9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>-0.32</td>
</tr>
</tbody>
</table>

**Other adverse effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Do not reuse container.
### 14. TRANSPORT INFORMATION

**DOT**
- **Proper shipping name**: Oxidizing solid, n.o.s
- **Hazard Class**: ORM-D
- **Emergency Response Guide Number**: 171
- **Proper shipping name**: Aerosols, Flammable

**ICAO (air)**
- **UN/ID No.**: 1950
- **Proper shipping name**: AEROSOLS
- **Hazard Class**: 2.1
- **Packing Group**: Ltd. Qty.

**IATA**
- **UN/ID No.**: 1950
- **Proper shipping name**: AEROSOLS, FLAMMABLE
- **Hazard Class**: 2.1
- **Packing Group**: Ltd. Qty.
- **ERG Code**: 126

**IMDG**
- **UN/ID No.**: UN1950
- **Proper shipping name**: UN1987, Alcohols, n.o.s. Class 3, PGII
- **Hazard Class**: 2
- **Packing Group**: Ltd. Qty.
- **EmS-No**: F-D, S-U
- **Marine pollutant**: No information available
- **Description**: UN1950, Aerosols, 2.1, Ltd. Qty.

**RID**
- **UN/ID No.**: 1950
- **Proper shipping name**: UN1987, Alcohols, n.o.s. Class 3, PGII
- **Hazard Class**: 2
- **Packing Group**: Ltd. Qty.
- **Classification code**: 5

**ADR**
- **UN/ID No.**: 1950
- **Proper shipping name**: UN1987, Alcohols, n.o.s. Class 3, PGII
- **Hazard Class**: 2
- **Packing Group**: Ltd. Qty.
- **Classification code**: 5

### 15. REGULATORY INFORMATION

**International Inventories**

**Legend:**
- **TSCA**: United States Toxic Substances Control Act Section 8(b) Inventory
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Protecting Spray

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DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute health hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol - 64-17-5</td>
<td>Carcinogen</td>
</tr>
<tr>
<td></td>
<td>Developmental</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1,1-Difluoroethane (Hydrofluorocarbon 152A) 75-37-6</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information
EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>4</td>
<td>0</td>
<td>Personal protection</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Issue Date 15-Jun-2013
Revision Date 18-Feb-2014
Revision Note No information available