1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier
Product name
CHASE’S HOME VALUE SPRAY DISINFECTANT CITRUS SCENT
Chemical name
7-8113-2

Other means of identification
Product code
FG 419-0423
Synonyms
Disinfectant Spray
Registration number(s)
498-179

Recommended use of the chemical and restrictions on use
Recommended Use
For disinfection of hard, non-porous, inanimate surfaces.
Uses advised against
Do not spray on varnished, painted or plastic surfaces.

Details of the supplier of the safety data sheet
Supplier Address
Chase Products Co.
2727 Gardner Road
Broadview, IL  60155
708-273-1121
Manufacturer Address
Chase Products Co.
2727 Gardner Road
Broadview, IL  60155
708-273-1121

Emergency Telephone Number
Company Phone Number
708-865-1000
24 Hour Emergency Phone Number
1-800-255-3924
Emergency telephone
ChemTel 1-800-255-3924

2. Hazards Identification

Classification
<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>FLAMMABLE AEROSOLS</td>
<td>Category 2</td>
</tr>
<tr>
<td>Gases Under Pressure</td>
<td>liquefied gas</td>
</tr>
</tbody>
</table>

Label Elements

EMERGENCY OVERVIEW

Warning

hazard statements
Causes serious eye irritation
Flammable Aerosol
Contains gas under pressure; may explode if heated

Appearance
Hazy, yellow liquid
Physical State
Aerosol
Odor
Perfumed
Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves, protective clothing, eye protection and face protection.
Keep away from heat, sparks, open flames and hot surfaces. — No smoking
Pressurized container: Do not pierce or burn, even after use
Do not spray on an open flame or other ignition source

Precautionary Statements - Response
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

Precautionary Statements - Storage
Protect from sunlight. Store in a well-ventilated place
Do not expose to temperatures exceeding 122 °F (50 °C)

Hazards not otherwise classified (HNOC)
Other Information
• Toxic to aquatic life with long lasting effects
0.69% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>45-50</td>
<td>*</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>30-35</td>
<td>*</td>
</tr>
<tr>
<td>N-Butane</td>
<td>106-97-8</td>
<td>10-15</td>
<td>*</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1-5</td>
<td>*</td>
</tr>
</tbody>
</table>

Chemical Additions
See label for active ingredients information.

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

4. First aid measures

FIRST AID MEASURES

Eye Contact
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact
Wash with soap and water. If irritation develops, consult a physician .

Inhalation
If overcome by vapor, move person to fresh air.

Ingestion
Ingestion from an aerosol product is unlikely to occur.

Most important symptoms and effects, both acute and delayed

Symptoms
Acute, Deliberate inhalation of concentrated vapor or mist may cause headaches. Prolonged and repeated contact with the eyes may cause mild irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians
None needed.
5. Fire-fighting measures

Suitable extinguishing media
Dry chemical, CO2 or water spray.

Unsuitable extinguishing media  Use water spray or fog; do not use straight streams.

Specific hazards arising from the chemical
Containers are under pressure. Temperatures above 130 °F may cause cans to burst.

Hazardous combustion products  Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

Explosion data
Sensitivity to Mechanical Impact Contents under pressure, keep away from heat and open flame.
Sensitivity to Static Discharge Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Protective equipment and precautions for firefighters
Use personal protective equipment as required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions  CONTENTS UNDER PRESSURE. Do not puncture or incinerate cans.
Other Information  Keep out of reach of children.

Environmental precautions

Environmental precautions  See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment  Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.
Methods for cleaning up  Clean contaminated surface thoroughly.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling  Avoid getting spray into eyes. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions  Store in a cool, dry place away from heat and open flame. Avoid storing at below-freezing temperatures. AEROSOL STORAGE LEVEL I (NFPA-30B).
Incompatible Materials  Avoid heat, open flame and contact with strong oxidizers.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines  See occupational exposure limits listed below.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
<td>IDLH: 3300 ppm</td>
</tr>
<tr>
<td>64-17-5</td>
<td></td>
<td>TWA: 1900 mg/m³</td>
<td>TWA: 1000 ppm</td>
</tr>
</tbody>
</table>
Appropriate engineering controls

Engineering controls  Use with adequate general or local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face Protection  Conventional eyeglasses to guard against splashing.

Skin and Body Protection  Household type gloves, if desired.

Respiratory protection  None required if used in a well-ventilated area.

General hygiene considerations  None required.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Aerosol</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Hazy, yellow liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>clear</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Perfumed.</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>10.5 +/- 0.5</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>NA</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>212 °F/100 °C</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available. This is an aerosol product for which Flame Projection is 6-8 inches without flashback. Temperatures above 120 F may cause cans to burst.</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Evaporation Rate  Faster than butyl acetate  No information available

Flammability (solid, gas)  No information available

Flammability Limits in Air

Upper flammability limits  Not available

Lower Flammability Limit  Not available

Vapor pressure  Not available  No information available

Vapor Density  Not available  No information available

Relative Density  0.92 concentrate  No information available

Water solubility  completely soluble  No information available

Solubility in other solvents  No information available

Partition coefficient  No information available

Autoignition Temperature  No information available

Decomposition temperature  No information available

Kinematic viscosity  No information available

Dynamic viscosity  No information available

Explosive properties  No information available

Oxidizing properties  No information available

Other Information

Softening point  No information available

Molecular weight  No information available

VOC content (%)  51.32%

FG 419-0423 CHASE’S HOME VALUE SPRAY DISINFECTANT CITRUS SCENT

Page 4 / 8
Density
No information available

Bulk Density
8.33 Lb/gal

### 10. Stability and Reactivity

**Reactivity**
Not applicable
No data available

**Chemical stability**
Stable.

**Possibility of hazardous reactions**
Temperatures above 130 °F may cause cans to burst with force.

**hazardous polymerization**
Hazardous polymerization does not occur.

**Conditions to Avoid**
Temperatures above 122 °F (50 °C).

**Incompatible Materials**
Avoid heat, open flame and contact with strong oxidizers.

**Hazardous decomposition products**
Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

### 11. Toxicological Information

**Information on likely routes of exposure**

**Product Information**
Acute: Prolonged inhalation of concentrated vapor or mist may cause headaches, dizziness and nausea. Prolonged and repeated contact with skin may cause irritation and reddening. Contact with eyes causes irritation.

**Inhalation**
See data below.

**Eye Contact**
No data available.

**Skin contact**
No data available.

**Ingestion**
This is an aerosol product, ingestion is unlikely to occur. MAY BE HARMFUL IF SWALLOWED.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water 7732-18-5</td>
<td>&gt; 90 mL/kg ( Rat )</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>= 7060 mg/kg ( Rat )</td>
<td>-</td>
<td>= 124.7 mg/L ( Rat ) 4 h</td>
</tr>
<tr>
<td>N-Butane 106-97-8</td>
<td>-</td>
<td>-</td>
<td>= 658 g/m³ ( Rat ) 4 h</td>
</tr>
<tr>
<td>Propane 74-98-6</td>
<td>-</td>
<td>-</td>
<td>= 658 mg/L ( Rat ) 4 h</td>
</tr>
</tbody>
</table>

**Information on toxicological effects**

**Symptoms**
See information above.

**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**
Not known chronic effects based on available information.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 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

Unknown acute toxicity
0.69% of the mixture consists of ingredient(s) of unknown toxicity

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

| ATEmix (inhalation-gas) | 10000000 |
| ATEmix (inhalation-vapor) | 16447.4 mg/l |

12. Ecological Information

ecotoxicity

20.99% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<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>Ethyl alcohol 64-17-5</td>
<td>13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static</td>
<td>EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min</td>
<td>10800: 24 h Daphnia magna mg/L EC50 9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
No information available.

Bioaccumulation
See information below.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>-0.32</td>
</tr>
<tr>
<td>N-Butane 106-97-8</td>
<td>2.89</td>
</tr>
<tr>
<td>Propane 74-98-6</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Other adverse effects
No information available

13. Disposal Considerations

Waste treatment methods

Disposal of wastes
Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.

Contaminated packaging
Pressurized container: Do not pierce or burn, even after use.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>Toxic Ignitable</td>
</tr>
</tbody>
</table>

14. Transport Information

DOT
15. Regulatory information

International Inventories

TSCA
All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

DSL
All ingredients are listed or are excluded from listing on the DSL.

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

US Federal Regulations

SARA 313
This product does not contain toxic chemicals (above the de minimis level) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th></th>
<th>yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
<td></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>Ethyl alcohol - 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>Water 7732-18-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>N-Butane 106-97-8</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Propane</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
U.S. EPA Label information
EPA Pesticide registration number  498-179
EPA Statement
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: CAUTION: May cause eye irritation. Avoid contact with the eyes and skin. Avoid breathing of spray mist. Avoid contamination of foodstuff.

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>1</td>
<td>1</td>
<td>Not applicable</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>1</td>
<td>2</td>
<td>1</td>
<td>A - Eyes protection</td>
</tr>
</tbody>
</table>

Issue date 01-Feb-2016
Revision note This SDS supersedes a previous SDS dated April 08, 2015.

Disclaimer
The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet