

# Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



## GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER - REFRESHING CITRUS™

Version 2.0

Print Date 01/12/2011

Revision Date 11/16/2010

MSDS Number 350000009704

SITE\_FORM Number

30000000000000008568.001

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product information

- Trade name : GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER - REFRESHING CITRUS™
- Use of the Substance/Mixture : Sanitizer
- Company : S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236
- Emergency telephone number : 24 Hour Transport & Medical Emergency Phone (866) 231-5406  
24 Hour International Emergency Phone (952) 852-4647

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance / Odor : clear / aerosol / pleasant

#### Immediate Concerns

: Warning  
FLAMMABLE:  
CAUSES EYE IRRITATION.  
Avoid contact with skin, eyes and clothing.  
Keep away from heat, sparks and flame.  
Contents under pressure.  
Do not puncture or incinerate.  
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.

#### Potential Health Effects

- Exposure routes : Eye, Skin, Inhalation, Ingestion.
- Eyes : Causes:  
Moderate eye irritation
- Skin : May cause skin reactions in rare cases.  
Prolonged or repeated contact may dry skin and cause irritation.
- Inhalation : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.
- Ingestion : May cause irritation to mouth, throat and stomach.

## Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



### GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER - REFRESHING CITRUS™

Version 2.0

Print Date 01/12/2011

Revision Date 11/16/2010

MSDS Number 350000009704

SITE\_FORM Number

300000000000000008568.001

May cause abdominal discomfort.

Aggravated Medical Condition : Persons with pre-existing skin disorders may be more susceptible to irritating effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous chemicals present at or above reportable levels as defined by OSHA 29 CFR 1910.1200 or the Canadian Controlled Products Regulations are listed in this table:

| Chemical Name      | CAS-No.  | Weight percent |
|--------------------|----------|----------------|
| Butane             | 106-97-8 | 10.00 - 30.00  |
| Propane            | 74-98-6  | 5.00 - 10.00   |
| Isobutane          | 75-28-5  | 5.00 - 10.00   |
| Triethylene glycol | 112-27-6 | 5.00 - 10.00   |

For additional information on product ingredients, see [www.whatsinsidescjohnson.com](http://www.whatsinsidescjohnson.com).

### 4. FIRST AID MEASURES

Eye contact : Remove contact lenses. Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.

Skin contact : Rinse with plenty of water. Get medical attention if irritation develops and persists.

Inhalation : Remove to fresh air. If breathing is affected, get medical attention.

Ingestion : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards during fire fighting : Aerosol Product - Containers may rocket or explode in heat of fire.

Further information : Fight fire from maximum distance or protected area. Cool and

## Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



### GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER - REFRESHING CITRUS™

Version 2.0

Print Date 01/12/2011

Revision Date 11/16/2010

MSDS Number 350000009704

SITE\_FORM Number

30000000000000008568.001

use caution when approaching or handling fire-exposed containers. For large quantities of flammable liquids, consider containment to prevent the spread of fire. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

|                       |   |  |
|-----------------------|---|--|
| Flash point           | : | < -7 °C<br>< 19.4 °F<br>Method: Tag Closed Cup (TCC)<br>Note: Propellant |
| Lower explosion limit | : | Note: no data available  |
| Upper explosion limit | : | Note: no data available  |
| NFPA Classification   | : | NFPA Level 1 Aerosol   |

#### 6. ACCIDENTAL RELEASE MEASURES

|                           |   |   |
|---------------------------|---|---|
| Personal precautions      | : | Remove all sources of ignition.<br>Wear personal protective equipment.  |
| Environmental precautions | : | Outside of normal use, avoid release to the environment.  |
| Methods for cleaning up   | : | If damage occurs to aerosol can:<br>Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).<br>Use only non-sparking equipment.<br>Dike large spills.<br>Clean residue from spill site. |

#### 7. HANDLING AND STORAGE

##### Handling

|                         |   |   |
|-------------------------|---|---|
| Advice on safe handling | : | Avoid contact with skin, eyes and clothing.<br>Do not puncture or incinerate.<br>Avoid breathing vapors, mist or gas.<br>For personal protection see section 8.<br>Do not spray toward face.<br>Do not use in areas without adequate ventilation.<br>Note: Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. For more |
|-------------------------|---|---|

# Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



## GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER - REFRESHING CITRUS™

Version 2.0

Print Date 01/12/2011

Revision Date 11/16/2010

MSDS Number 350000009704

SITE\_FORM Number

30000000000000008568.001

information visit [www.inhalant.org](http://www.inhalant.org).

Use only as directed.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.  
Take measures to prevent the build up of electrostatic charge.

### Storage

Requirements for storage areas and containers : Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.  
Keep in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

| Components | CAS-No.  | mg/m3       | ppm       | Non-standard units | Basis     |
|------------|----------|-------------|-----------|--------------------|-----------|
| Butane     | 106-97-8 | -           | 1,000 ppm | -                  | ACGIH TWA |
| Propane    | 74-98-6  | 1,800 mg/m3 | 1,000 ppm | -                  | OSHA TWA  |
| Propane    | 74-98-6  | -           | 1,000 ppm | -                  | ACGIH TWA |
| Isobutane  | 75-28-5  | -           | 1,000 ppm | -                  | ACGIH TWA |

### Personal protective equipment

#### Respiratory protection

Industrial setting : No personal respiratory protective equipment normally required.

Household setting : Use only with adequate ventilation.

**Hand protection** : No special requirements.

#### Eye protection

Industrial setting : Safety glasses with side-shields

## Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



### GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER - REFRESHING CITRUS™

Version 2.0

Print Date 01/12/2011

Revision Date 11/16/2010

MSDS Number 350000009704

SITE\_FORM Number

3000000000000008568.001

Household setting : Avoid contact with eyes.

**Skin and body protection** : No special requirements.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |  |
|--|--|
| Form   | : aerosol  |
| Color  | : clear  |
| Odor   | : pleasant   |
| pH   | : Calculated 8 - 9<br>at 20 °C                                       |
| Boiling point  | : no data available  |
| Flash point  | : < -7 °C<br>< 19.4 °F<br>Method: Tag Closed Cup (TCC)<br>Propellant |
| Evaporation rate   | : no data available  |
| Flammability (solid, gas)  | : Sustains combustion  |
| Lower explosion limit  | : no data available  |
| Upper explosion limit  | : no data available  |
| Vapour pressure  | : estimated 52 psi<br>at 70 °F                                       |
| Density  | : Calculated 0.80 g/cm <sup>3</sup>                                  |
| Water solubility   | : partly soluble   |
| Volatile Organic Compounds<br>(California Air Resource<br>Board – CARB)<br>Total VOC (wt. %) | : 30.1 % - does not include any applicable regulatory<br>exemptions  |

## Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



### GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER - REFRESHING CITRUS™

Version 2.0

Print Date 01/12/2011

Revision Date 11/16/2010

MSDS Number 350000009704

SITE\_FORM Number

30000000000000008568.001

#### 10. STABILITY AND REACTIVITY

- Conditions to avoid : Heat, flames and sparks.
- Materials to avoid : Strong oxidizing agents  
Strong acids
- Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.
- Hazardous reactions : Stable under recommended storage conditions.

#### 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50  
estimated  
> 5,000 mg/kg
- Acute inhalation toxicity : LC50  
estimated  
> 5.36 mg/l
- Acute dermal toxicity : LD50  
estimated  
> 5,000 mg/kg
- Chronic effects**
- Carcinogenicity : no data available
- Mutagenicity : no data available
- Reproductive effects : no data available
- Teratogenicity : no data available
- Sensitisation : Substance is not a sensitizer.

**Material Safety Data Sheet**

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



**GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER - REFRESHING CITRUS™**

Version 2.0

Print Date 01/12/2011

Revision Date 11/16/2010

MSDS Number 350000009704  
SITE\_FORM Number  
30000000000000008568.001

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects** : no data available

**13. DISPOSAL CONSIDERATIONS**

Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.  
Consumer may discard empty container in trash, or recycle where facilities exist.

RCRA waste class : D001 (Ignitable Waste)

**14. TRANSPORT INFORMATION**

**Land transport**

▪ **U.S. DOT and Canadian TDG Surface Transportation:**

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1  
||Class: 2.1  
UN number 1950  
Packaging group: None.  
Note: SC Johnson ships this product as Consumer Commodity ORM-D (non-bulk packages)

**Sea transport**

▪ **IMDG:**

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1  
||Class: 2  
||UN number: 1950  
Packaging group: None.  
||EmS: F-D, S-U  
Note: Limited quantities derogation may be applicable to this product, please check transport documents.

**Air transport**

▪ **ICAO/IATA:**

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1  
||Class: 2.1  
||UN/ID No.: UN 1950  
Packaging group: None.

# Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



## GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER - REFRESHING CITRUS™

Version 2.0

Print Date 01/12/2011

Revision Date 11/16/2010

MSDS Number 350000009704

SITE\_FORM Number

30000000000000008568.001

Note: SC Johnson typically does not ship products via air, therefore it has not been determined if the product container meets current IATA/ICAO package criteria. Refer to IATA/ICAO Dangerous Goods Regulations for detailed instructions when shipping this item by air.

### 15. REGULATORY INFORMATION

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

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Registration # / Agency  
4822-560/EPA

### 16. OTHER INFORMATION

#### HMIS Ratings

|              |   |
|--------------|---|
| Health       | 2 |
| Flammability | 4 |
| Reactivity   | 0 |

#### NFPA Ratings

|            |   |
|------------|---|
| Health     | 2 |
| Fire       | 4 |
| Reactivity | 0 |
| Special    |   |

#### Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

|              |  |
|--------------|--|
| Prepared by: | SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA) |
|--------------|--|



**Material Safety Data Sheet**

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



**GLADE® TOUGH ODOR SOLUTIONS AIR SANITIZER -  
REFRESHING CITRUS™**

Version 2.0

Print Date 01/12/2011

Revision Date 11/16/2010

MSDS Number 350000009704  
SITE\_FORM Number  
30000000000000008568.001