

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

Printing date 02.04.2015

Revision: 02.04.2015

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Golden Delicious
- **Article number:** 3875
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Deodorizer
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
ATCO International  
1401 Barclay Circle, S.E.  
Marietta, Ga 30060  
770-424-7550
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.  
Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).  
The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H227, H317.



Skin Sens. 1 H317: May cause an allergic skin reaction.

H227: Combustible Liquid. (General GHS and USA only)

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
  - **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.  
The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

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- **Additional information:**

0 percent of the mixture consists of component(s) of unknown toxicity  
There are no other hazards not otherwise classified that have been identified.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS07 - USA Only.

- **Signal word**

WARNING

Not applicable within the EU; applicable only for North America.

- **Hazard-determining components of labelling:**

allyl 3-cyclohexylpropionate

4-nonylphenyl-polyethylene glycol

- **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H227, H317.

H317: May cause an allergic skin reaction.

H227: Combustible Liquid. (General GHS and USA only)

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

The following Precautionary Statements are applicable only to the OSHA GHS regulations and not the specific CLP regulation: All except P501.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

P302+P352 IF ON SKIN: Wash with plenty of water.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

EUH208 Contains allyl 3-cyclohexylpropionate. May produce an allergic reaction.

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- Hazard description:
- WHMIS-symbols:  
B3 - Combustible liquid



- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)



- HMIS Long Term Health Hazard Substances

None of the ingredients are listed.

- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 9016-45-9 NLP: 500-024-6	4-nonylphenyl-polyethylene glycol ☒ Xi R36/38; ☒ N R51/53 ----- ☠ Aquatic Chronic 2, H411 ☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	2,5-10%
CAS: 88-41-5 EINECS: 201-828-7	2-tert-butylcyclohexyl acetate ☒ N R51/53 ----- ☠ Aquatic Chronic 2, H411	≤ 2,5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol ☒ Xi R36; ☒ F R11 R67 ----- ☠ Flam. Liq. 2, H225 ☠ Eye Irrit. 2, H319; STOT SE 3, H336	≤ 2,5%

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 CAS: 2705-87-5  
 EINECS: 220-292-5

allyl 3-cyclohexylpropionate

Xn R20/21/22; Xi R43; N R50/53

&lt; 1%

 Aquatic Acute 1, H400; Aquatic Chronic 1, H410  
 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332;  
 Skin Sens. 1, H317

**SVHC**

9016-45-9 | 4-nonylphenyl-polyethylene glycol

**Additional information:**

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.  
 For the wording of the listed risk phrases refer to section 16.

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately remove any clothing soiled by the product.  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation is experienced, consult a doctor.

**After eye contact:**

Remove contact lenses if worn.  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth and then drink plenty of water.  
 Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

Slight irritant effect on eyes.  
 Gastric or intestinal disorders when ingested.  
 Nausea in case of ingestion.

**Hazards** No further relevant information available.

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

Treat skin and mucous membrane with antihistamine and corticoid preparations.  
 Contains allyl 3-cyclohexylpropionate. May produce an allergic reaction.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**
**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** None.

**5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

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- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information** No further relevant information available.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.  
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.  
Keep away from ignition sources.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).  
Dispose contaminated material as waste according to item 13.  
Send for recovery or disposal in suitable receptacles.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Prevent formation of aerosols.  
Use only in well ventilated areas.  
Avoid splashes or spray in enclosed areas.
- **Information about fire - and explosion protection:** Combustible liquid.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Provide ventilation for receptacles.  
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Do not store together with oxidising and acidic materials.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**67-63-0 propan-2-ol**

PEL (USA)	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL (USA)	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV (USA)	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI
EL (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm
EV (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm

· **DNELs** No further relevant information available.

· **PNECs** No further relevant information available.

· **Ingredients with biological limit values:**

**67-63-0 propan-2-ol**

BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

· **Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear to slightly hazy.
<b>Odour:</b>	Green Apple

- **pH-value at 20 °C (68 °F):** 7

- **Change in condition**

<b>Melting point/Melting range:</b>	Not Determined.
<b>Boiling point/Boiling range:</b>	100 °C (212 °F)

- **Flash point:** 80,5 °C (177 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Auto/Self-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

<b>Lower:</b>	Not determined.
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- **Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C (68 °F):** 1 g/cm<sup>3</sup> (8,345 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with strong acids and oxidising agents.
- **10.4 Conditions to avoid** Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity:**
- |  |      |                    |
|--|------|--------------------|
| · <b>LD/LC50 values relevant for classification:</b> |      |                    |
| <b>9016-45-9 4-nonylphenyl-polyethylene glycol</b>   |      |                    |
| Oral   | LD50 | 4290 mg/kg (mouse) |
- **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** Slight irritant effect on eyes.
  - **Sensitisation:** Sensitising effect by skin contact is possible by prolonged exposure.
  - **Subacute to chronic toxicity:** No further relevant information available.
  - **Acute effects (acute toxicity, irritation and corrosivity):** May be harmful if inhaled.

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- **Repeated dose toxicity:** Repeated exposures may result in skin and/or respiratory sensitivity.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

The product contains materials that are harmful to the environment.

### 9016-45-9 4-nonylphenyl-polyethylene glycol

LC50	1,821 mg/l (daphnia) (48 h)
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- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- **14.1 UN-Number**

- **DOT**

Not Regulated

Classified as combustible under US DOT regulations.

Labeling required for single packages  $\geq 119$  US gal /

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<ul style="list-style-type: none"> <li>· ADR, ADN, IMDG, IATA</li> <li>· 14.2 UN proper shipping name</li> <li>· DOT, ADR, ADN, IMDG, IATA</li> <li>· 14.3 Transport hazard class(es)</li> <li>· DOT, ADR, ADN, IMDG, IATA</li> <li>· Class</li> <li>· 14.4 Packing group</li> <li>· DOT, ADR, IMDG, IATA</li> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> <li>· 14.6 Special precautions for user</li> <li>· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> <li>· UN "Model Regulation":</li> </ul>	<p>450 L to include Combustible symbol and Proper Shipping Name. Not Regulated</p> <p>Not Regulated</p> <p>Not Regulated</p> <p>Not Regulated</p> <p>Not Regulated</p> <p>No</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>-</p>
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### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

#### · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

#### · Section 313 (Specific toxic chemical listings):

67-63-0 | propan-2-ol

#### · TSCA (Toxic Substances Control Act):

All ingredients are listed.

#### · Proposition 65 (California):

#### · Chemicals known to cause cancer:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

#### · Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### · Carcinogenic Categories

#### · EPA (Environmental Protection Agency)

None of the ingredients are listed.

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<b>· IARC (International Agency for Research on Cancer)</b>		
67-63-0	propan-2-ol	3
140-11-4	benzyl acetate	3

67-63-0	propan-2-ol	3
140-11-4	benzyl acetate	3

<b>· TLV (Threshold Limit Value established by ACGIH)</b>		
67-63-0	propan-2-ol	A4
140-11-4	benzyl acetate	A4

67-63-0	propan-2-ol	A4
140-11-4	benzyl acetate	A4

<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients are listed.		

<b>· Canada</b>		
<b>· Canadian Domestic Substances List (DSL)</b>		
All ingredients are listed.		

<b>· Canadian Ingredient Disclosure list (limit 0.1%)</b>		
None of the ingredients are listed.		

<b>· Canadian Ingredient Disclosure list (limit 1%)</b>		
67-63-0	propan-2-ol	

<b>· Other regulations, limitations and prohibitive regulations</b>		
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.		

<b>· Substances of very high concern (SVHC) according to REACH, Article 57</b>		
9016-45-9	4-nonylphenyl-polyethylene glycol	

<b>· 15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.
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## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

<b>· Relevant phrases</b>	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
.....	
R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36	Irritating to eyes.

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- R36/38 Irritating to eyes and skin.  
 R43 May cause sensitisation by skin contact.  
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R67 Vapours may cause drowsiness and dizziness.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMS: Hazardous Materials Identification System (USA)  
 WHMIS: Workplace Hazardous Materials Information System (Canada)  
 VOC: Volatile Organic Compounds (USA, EU)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Flam. Liq. 2: Flammable liquids, Hazard Category 2  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

**Sources**

SDS Prepared by:

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