

# Material Safety Data Sheet

**ECOLAB™**

ENDUST

## Section 1. Chemical product and company identification

Trade name : ENDUST  
 Product use : Furniture Cleaner - Care Product  
 Supplier : Ecolab Inc. Professional Products Division  
 370 N. Wabasha St.  
 St. Paul, MN 55102  
 1-800-247-5362  
 Code : 907261  
 Date of issue : 29-July-2005

**EMERGENCY HEALTH INFORMATION: 1-800-328-0026**  
**Outside United States and Canada CALL 1-651-222-5352 (in USA)**

## Section 2. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
isobutane	75-28-5	5 - 20
naphtha (petroleum), hydrotreated heavy	64742-48-9	5 - 20
terpenes and terpenoids, sweet orange-oil	68647-72-3	1 - 5
propane	74-98-6	1 - 5

## Section 3. Hazards identification

Physical state : Liquid. (Aerosol.)  
 Emergency overview : DANGER!

MAY CAUSE RESPIRATORY TRACT AND EYE IRRITATION.  
 Repeated or prolonged contact with irritants may cause dermatitis.  
 MAY CAUSE ALLERGIC SKIN REACTION.  
 HARMFUL IF SWALLOWED. MAY BE FATAL IF SWALLOWED. Aspiration hazard if swallowed- can enter lungs and cause damage. Can cause central nervous system depression.  
 CONTENTS UNDER PRESSURE.  
 FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE.  
 Do not ingest. Avoid contact with skin and clothing. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

### Potential acute health effects

Eyes : Moderately irritating to the eyes.  
 Skin : Slightly irritating to the skin. May cause sensitization by skin contact.  
 Inhalation : Moderately irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.  
 Ingestion : Harmful if swallowed. Aspiration hazard if swallowed- can enter lungs and cause damage.  
**See toxicological information (section 11)**

## Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.  
 Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.  
 Inhalation : If inhaled, remove to fresh air.  
 Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

## Section 5. Fire fighting measures

- Flash point** : -18 to 23 °C (Closed cup)
- Fire fighting media and instructions** : In case of fire, use water spray (fog), foam, dry chemicals, or CO<sub>2</sub>. Cool closed containers exposed to fire with water. Bursting aerosol containers may be propelled from a fire at high speed.  
Dike area of fire to prevent product run-off.  
Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.--

## Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire, minimize ignition sources. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Do not puncture, incinerate, store the container at temperatures above 49°C (120°F) or in direct sunlight. Avoid all possible sources of ignition (spark or flame). Store between 0 and 40°C

## Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

### Personal protection

- Eyes** : Eye protection recommended.
- Hands** : Use chemical resistant, impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : Avoid breathing vapor or mist.

**Name**  
isobutane

### Exposure limits

#### **ACGIH TLV (United States, 1/2004).**

TWA: 1000 ppm 8 hour(s). Form: All forms

#### **NIOSH REL (United States, 12/2001).**

TWA: 1900 mg/m<sup>3</sup> 10 hour(s). Form: All forms

TWA: 800 ppm 10 hour(s). Form: All forms

propane

#### **ACGIH TLV (United States, 1/2004).**

TWA: 1000 ppm 8 hour(s). Form: All forms

#### **OSHA PEL (United States, 8/1997).**

TWA: 1800 mg/m<sup>3</sup> 8 hour(s). Form: All forms

TWA: 1000 ppm 8 hour(s). Form: All forms

#### **NIOSH REL (United States, 12/2001).**

TWA: 1800 mg/m<sup>3</sup> 10 hour(s). Form: All forms

TWA: 1000 ppm 10 hour(s). Form: All forms

**ENDUST****Page: 3/4****Section 9. Physical and chemical properties**

Physical state : Liquid. (Aerosol.)  
 Color : White.  
 Odor : Fragrance like.  
 pH : Not applicable.  
 Specific gravity : 0.9 (Water = 1)  
 VOC : 70 (%)  
 Solubility : Partially soluble in cold water, hot water.

**Section 10. Stability and reactivity**

Stability : The product is stable.  
 Reactivity : Slightly reactive to reactive with oxidizing agents.

**Section 11. Toxicological information****Potential acute health effects**

Eyes : Moderately irritating to the eyes.  
 Skin : Slightly irritating to the skin. May cause sensitization by skin contact.  
 Inhalation : Moderately irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.  
 Ingestion : Harmful if swallowed. Aspiration hazard if swallowed- can enter lungs and cause damage.  
 Chronic effects on humans : Contains material which causes damage to the following organs: the nervous system, central nervous system (CNS).

**Section 12. Ecological information**

Products of degradation : These products are carbon oxides (CO, CO<sub>2</sub>) and water.

**Section 13. Disposal considerations**

Waste disposal : Do not puncture or incinerate container.  
 Waste classification : Unused product is D001 (Ignitable).  
 Consult your local or regional authorities.

**Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification		Consumer commodity	ORM-D	-	-

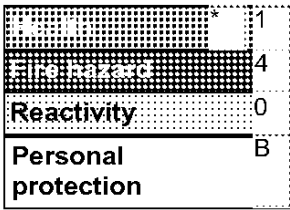
**APPLIES ONLY DURING ROAD TRANSPORT**

Any variation of the shipping description based on the packaging is not addressed.

**Section 15. Regulatory information**

HCS Classification : Flammable liquid  
 Irritating material  
 Sensitizing material  
 Target organ effects  
 U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: None.  
 SARA 302/304 emergency planning and notification: None.  
 TSCA 8(b) inventory : All materials are listed or exempt.  
 California prop. 65 : No products were found.

## Section 16. Other information

Hazardous Material Information System (U.S.A.)	:	
		1
		4
		0
		B

Date of issue : 29-July-2005.  
Responsible name : Regulatory Affairs  
Date of previous issue : 29-July-2005.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.