

Material Safety Data Sheet

ENDUST



1. Product and company identification

Trade name of product : ENDUST
Product use : Furniture Cleaner - Care Product

Product dilution information : Not applicable

Supplier's information : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326

Code : 907261

Date of issue : 26-November-2012

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

2. Hazards identification

Product AS SOLD

Physical state : Aerosol
Emergency overview : WARNING!

FLAMMABLE AEROSOLS.
MAY CAUSE EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
CONTENTS UNDER PRESSURE.
Can cause central nervous system (CNS) depression.
Intentional misuse by deliberate inhalation may be harmful or fatal.

Avoid contact with eyes, skin and clothing. Avoid breathing vapours, spray or mists. Keep away from heat, sparks and flame. Keep away from heat and direct sunlight. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Product AS SOLD

Eyes : Slightly irritating to the eyes.
Skin : Slightly irritating to the skin. May cause sensitisation by skin contact.
Inhalation : Slightly irritating to the respiratory system. High vapour concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.
Ingestion : May be harmful if swallowed. Ingestion may cause nausea, weakness and central nervous system effects.

See toxicological information (Section 11)

Product AT USE DILUTION

Product is sold ready to use.

Product AT USE DILUTION

Product is sold ready to use.

3. Composition/information on ingredients

Product AS SOLD

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
white mineral oil, petroleum distillates (petroleum), hydrotreated light	8042-47-5	15 - 40
BUTANE	64742-47-8	5- 10
PROPANE	106-97-8	5- 10
terpenes and terpenoids, sweet orange-oil	74-98-6	1 - 5
	68647-72-3	1 - 5

Product AT USE DILUTION

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
Product is sold ready to use.		

4. First-aid measures

	Product AS SOLD
Eye contact	: Rinse with water for a few minutes.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	: No special measures required. Treat symptomatically.
Ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Product AT USE DILUTION
Product is sold ready to use.

5. Fire-fighting measures

Product AS SOLD

Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special remarks on fire hazards	: Not available.
Special remarks on explosion hazards	: Not available.
Fire-fighting media and instructions	: Use an extinguishing agent suitable for the surrounding fire. Use water spray to keep fire-exposed containers cool. Containers may explode when heated. Ruptured cylinders may rocket. Dike area of fire to prevent runoff. Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. 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 face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	Product AS SOLD : Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilt material and runoff with soil and surface waterways.
Methods for cleaning up	: If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. Use a water rinse for final clean-up.

Product AT USE DILUTION
Product is sold ready to use.

7. Handling and storage

Handling	Product AS SOLD : Avoid contact with eyes, skin and clothing. Avoid breathing vapours, spray or mists. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Liquid and vapour under pressure. Do not puncture or incinerate container. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container in a cool, well-ventilated area. Store in a closed container. Keep container tightly closed and sealed until ready for use. Do not puncture or incinerate container. Avoid all possible sources of ignition (spark or flame). Store between the following temperatures: 0 and 40°C

Product AT USE DILUTION
Product is sold ready to use.

8. Exposure controls/personal protection

Engineering measures	Product AS SOLD : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits.
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Personal protection

Eyes	: No protective equipment is needed under normal use conditions.
Hands	: Use chemical-resistant, impervious gloves.
Skin	: Use suitable protective equipment.
Respiratory	: No special protection is required.

Product AT USE DILUTION
Product is sold ready to use.

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Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	
white mineral oil, petroleum	US ACGIH 2/2010	-	5	-	-	-	-	-	-	-	[a]
	BC 9/2010	-	1	-	-	-	-	-	-	-	
	ON 7/2010	-	5	-	-	10	-	-	-	-	[b]
	QC 6/2008	-	5	-	-	10	-	-	-	-	[b]
distillates (petroleum), hydrotreated light, as total hydrocarbon vapour	AB 4/2009	-	200	-	-	-	-	-	-	-	[1]
	BC 9/2010	-	200	-	-	-	-	-	-	-	[1]
distillates (petroleum), hydrotreated light	ON 7/2010	-	200	-	-	-	-	-	-	-	[1]
	US ACGIH 2/2010	1000	-	-	-	-	-	-	-	-	
butane	AB 4/2009	1000	-	-	-	-	-	-	-	-	

8. Exposure controls/personal protection

propane	BC 9/2010	600	-	-	750	-	-	-	-	-	-
	ON 7/2010	800	-	-	-	-	-	-	-	-	-
	QC 6/2008	800	1900	-	-	-	-	-	-	-	-
	US ACGIH 2/2010	1000	-	-	-	-	-	-	-	-	-
	AB 4/2009	1000	-	-	-	-	-	-	-	-	-
	BC 9/2010	1000	-	-	-	-	-	-	-	-	-
	ON 7/2010	1000	-	-	-	-	-	-	-	-	-
	QC 6/2008	1000	1800	-	-	-	-	-	-	-	-

[1]Absorbed through skin.

Form: [a]Inhalable fraction [b]mist

9. Physical and chemical properties

Product AS SOLD

Physical state	: Aerosol
Flash point	: Not applicable.
Colour	: White
Odour	: Floral
pH	: 7
Boiling/condensation point	: <35°C (<95°F)
Melting/freezing point	: Not available.
Relative density	: 0.84 to 0.86
Vapour pressure	: Not available.
Vapour density	: Not available.
Odour threshold	: Not available.
Evaporation rate	: Not available.
Viscosity	: Not available.
Dispersibility	: Not available.
Solubility	: Easily soluble in the following materials: cold water and hot water.
LogK_{ow}	: Not available.

Product AT USE DILUTION

Product is sold ready to use.

10. Stability and reactivity

Product AS SOLD

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability	: Not available.
Reactivity	: Slightly reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerisation	: Under normal conditions of storage and use, hazardous polymerisation will not occur.

11. Toxicological information

Potential acute health effects

Product AS SOLD

Eyes	: Slightly irritating to the eyes.
Skin	: Slightly irritating to the skin. May cause sensitisation by skin contact.

Product AT USE DILUTION

Product is sold ready to use.

11. Toxicological information

- Inhalation** : Slightly irritating to the respiratory system. High vapour concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.
- Ingestion** : May be harmful if swallowed. Ingestion may cause nausea, weakness and central nervous system effects.

Product AS SOLD

Potential chronic health effects

- Carcinogenic effects** : No known significant effects or critical hazards.
- Mutagenic effects** : No known significant effects or critical hazards.
- Teratogenic effects** : No known significant effects or critical hazards.
- Reproductive effects** : No known significant effects or critical hazards.
- Sensitization to Product** : May cause sensitisation by skin contact.
- Synergistic products (toxicologically)** : Not available.

Toxicity data

Product/ingredient name	Test	Route	Result	Species
white mineral oil, petroleum	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	>5000 mg/kg	Rat
	LC50	Inhalation	>5.2 mg/l	Rat
distillates (petroleum), hydrotreated light	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	>5000 mg/kg	Rat
	LC50	Inhalation	>5.68 mg/l	Rat
butane	LC50	Inhalation	280000 ppm	Rat
propane	LC50	Inhalation	>800000 ppm	Rat

Other adverse effects

- Target organs** : Contains material which may cause damage to the following organs: heart, upper respiratory tract, eyes, central nervous system (CNS).

12. Ecological information

- Ecotoxicity** : Not reported

13. Disposal considerations

Product AS SOLD

- Waste disposal** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Product AT USE DILUTION

Product is sold ready to use.

14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Product AS SOLD

TDG

- TDG Classification** : UN1950
- TDG Proper shipping name** : AEROSOLS
- Class** : 2.1
- Packing group** : -

IMO/IMDG

14. Transport information

IMO/IMDG Classification UN1950
IMO/IMDG Proper shipping name AEROSOLS. Marine pollutant (distillates (petroleum), hydrotreated light , terpenes and terpenoids, sweet orange-oil)
Class 2.1
Packing group -

For transport in bulk, see shipping documents for specific transportation information.

15. Regulatory information

Product AS SOLD

WHMIS : Class A: Compressed gas.
 Class B-5: Flammable aerosol.
 Class D-2B: Material causing other toxic effects (Toxic).

Product AT USE DILUTION

Product is sold ready to use.

Canada inventory : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.) :

Health	*	1
Flammability		2
Physical hazards		0

National Fire Protection Association (U.S.A.) :



NFPA Aerosol Level : Level 1

Date of issue : 26-November-2012
Responsible name : Regulatory Affairs
 1-800-352-5326

☑ Indicates information that has changed from previously issued version.

Notice to reader

16. Other information

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.**