Reviewed 05/2015

1 Identification

- · Product identifier: 248050
- · Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant)
- · Application of the substance / the mixture Spray extraction cleaner
- · Details of the supplier of the Safety Data Sheet

• Manufacturer/Supplier: Norazza, Inc. 3938 Broadway

Buffalo, NY 14227 Phone: (716) 706-1160

• Emergency telephone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· Classification of the substance or mixture

Simple Asphyxiant May displace oxygen and cause rapid suffocation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms Not Regulated
- · Signal word Danger
- · Hazard-determining components of labeling: None.

Hazard statements

May displace oxygen and cause rapid suffocation.

- · Additional information: Pressurized container: May burst if heated.
- · Hazard description:
- · WHMIS-symbols: Not hazardous under WHMIS.
- · Classification system:
- NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

```
HEALTH1Health = 1FIRE1Fire = 1REACTIVITY1Reactivity = 1
```

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

(Contd. on page 2)

Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant) (Contd. of page 1) · vPvB: Not applicable. **3 Composition/information on ingredients** · Chemical characterization: Substances · CAS No. Description 811-97-2 Norflurane · Identification number(s) · EC number: 212-377-0 · Chemical characterization: Mixtures · Description: Mixture of the substances listed below with nonhazardous additions. · Dangerous components: None in reportable quantities. **4 First-aid measures** · Description of first aid measures · General information: Take affected persons out into the fresh air. · After inhalation: Supply fresh air. Seek medical treatment in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. After skin contact: In cases of frost bites, rinse with plenty of water. Do not remove clothing. Seek immediate medical advice. · After eye contact: Remove contact lenses if worn, if possible. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Unlikely route of exposure. Rinse out mouth and then drink plenty of water. Seek medical treatment. Most important symptoms and effects, both acute and delayed Dizziness Coughing **Breathing difficulty** Frost bites Disorientation Unconsciousness Danger Danger of impaired breathing. Danger of disturbed cardiac rhythm. · Indication of any immediate medical attention and special treatment needed May produce a asphyxiant or hypnotic effect. Treat frost-bitten areas appropriately.

(Contd. on page 3)

Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant)

(Contd. of page 2)

Do not administer preparations of the adrenalin-ephedrine-group.

5 Fire-fighting measures

· Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced. Danger of receptacles bursting because of high vapor pressure if heated.
 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.
- \cdot Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: Allow to evaporate.
- · 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.

7 Handling and storage

· Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

 Information about protection against explosions and fires: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Observe official regulations on storing packaging with pressurized containers. Store in a cool location.

Avoid storage near extreme heat, ignition sources or open flame.

• Information about storage in one common storage facility: Store away from oxidizing agents.

(Contd. on page 4)

	(Contd. of page 3
Further information about storage conditions:	(1111)
Protect from heat and direct sunlight.	
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting	
Specific end use(s) No further relevant information available.	
Exposure controls/personal protection	
Additional information about design of technical systems: No further data; see item	7.
Control parameters	
Components with limit values that require monitoring at the workplace:	
811-97-2 Norflurane	
WEEL (USA) Long-term value: 1000 ppm	
Additional information: The lists that were valid during the creation were used as basis.	
Exposure controls	
Personal protective equipment:	
General protective and hygienic measures:	
The usual precautionary measures for handling chemicals should be followed.	
Keep away from foodstuffs, beverages and feed.	
Do not inhale gases / fumes / aerosols.	
Avoid contact with the eyes and skin.	
Breathing equipment:	
Use suitable respiratory protective device in case of insufficient ventilation.	
For spills, respiratory protection may be advisable.	
Protection of hands:	
Gloves not required under normal conditions of use.	
Wear protective gloves to handle contents of damaged or leaking units.	
Gloves should provide protection from freezing temperatures. Material of gloves	
The selection of the suitable gloves does not only depend on the material, but also on	further merke
quality and varies from manufacturer to manufacturer.	
Penetration time of glove material	
The exact break through time has to be found out by the manufacturer of the protective of	nloves and has t
be observed.	yiu web and nab li
Eye protection: Safety glasses recommended.	
Body protection:	
Not required under normal conditions of use.	
Protection may be required for spills.	

38.0.16

(Contd. on page 5)

Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant)

(Contd. of page 4)

Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Aerosol
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not determined.
· pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	
Boiling point/Boiling range:	-14.8°F / -26 °C (5°F / -15 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	Not determined.
 Decomposition temperature: 	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Heating may cause an explosion.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water at 20 °C (68 °F):	1.93 g/l
· Partition coefficient (n-octanol/wat	t er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
 Other information 	No further relevant information available.

(Contd. on page 6)

Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant)

(Contd. of page 5)

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- · Possibility of hazardous reactions
- Toxic fumes may be released if heated above the decomposition point.
- · Conditions to avoid Keep away from heat and direct sunlight.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Danger of toxic fluorine based pyrolysis products.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: Slight irritant effect on skin and mucous membranes.
- on the eye: Slight irritant effect on eyes.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.
- · Carcinogenic categories
- NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential Does not accumulate in organisms
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Generally not hazardous for water

Due to the consistence and the low watersolubility of the product a bioavailability is not probable.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

(Contd. on page 7)

Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant)

(Contd. of page 6)

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

· Uncleansed packaging:

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

UN-Number		
DOT, ADR, IMDG, IATA	UN1950	
UN proper shipping name		
DOT	Aerosols, non-flammable	
ADR	1950 AEROSOLS	
IMDG	AEROSOLS	
ΙΑΤΑ	AEROSOLS, non-flammable	
Transport hazard class(es)		
DOT		
C C LA CEL MA		
Class	2.2	
Label	2.2	
ADR		
		
Class	2.2 5A	
Label	2.2	
IMDG, IATA		
~		
Class	2.2	
Label	2.2	
Packing group DOT, ADR, IMDG, IATA		

Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant)

		(Contd. of page 7)
· Environmental hazards:		
· Marine pollutant:	No	
 Special precautions for user EMS Number: 	Not applicable. F-D,S-U	
 Transport in bulk according to Anne MARPOL73/78 and the IBC Code 	ex II of Not applicable.	
· UN "Model Regulation":	UN1950, Aerosols, 2.2	

15 Regulatory information

Г

· Safety, health and environmental regulations/legislation specific for the substance or mixture ·SARA

 Section 355 (extremely hazardous substances): 	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· 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 is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity: Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.	
64-17-5 ethanol	
Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
 IARC (International Agency for Research on Cancer) 	
64-17-5 ethanol	1
TLV (Threshold Limit Value established by ACGIH)	
64-17-5 ethanol	A3

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

(Contd. on page 9)

Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant)

(Contd. of page 8)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

State Right to Know Listings

None of the ingredients is listed.

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)

64-17-5 ethanol

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Date of preparation / last revision 02/14/2014 / -

· 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 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) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) · Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com

Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant)

38.0.16