1 Identification

· Product identifier: 246050

- · Trade name: Endust for Electronics (Non-Flammable Duster with Bitterant) 3.5 oz 2pk
- 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)



Health = 1Fire = 1

Reactivity = 1

· HMIS-ratings (scale 0 - 4)



1 Health = 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.

· 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)

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

(Contd. of page 3)

· Further information about storage conditions:

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.

8 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 marks of 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 gloves and has to be observed.

- · Eye protection: Safety glasses recommended.
- · Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

· Limitation and supervision of exposure into the environment No special requirements.

(Contd. on page 5)

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

(Contd. of page 4)

9 Physical and chemical properties		
· Information on basic physical and · General Information	chemical properties	
· Appearance:		
Form:	Aerosol	
Color:	Colorless	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
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.	
· Vapor 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		
· 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)

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 water solubility 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.

Transport information		
UN-Number	LINIAOEO	
DOT, ADR, IMDG, IATA	UN1950	
UN proper shipping name		
DOT ADR	Aerosols, non-flammable	
IMDG	1950 AEROSOLS AEROSOLS	
IATA	AEROSOLS AEROSOLS, non-flammable	
	ALTOGOLO, HOL Hallimable	
Transport hazard class(es)		
DOT		
awana		
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	Not Regulated	

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

	(Contd. of page 7)
No	
Not applicable. F-D,S-U	
K II of Not applicable.	
UN1950, Aerosols, 2.2	
	Not applicable. F-D,S-U II of Not applicable.

15 Regulatory information

- \cdot 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

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· TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

А3

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

None of the ingredients is listed.

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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

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