

# OSBORN HIGH TECH ELECTRONIC CLEANER 76334

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

Chemical Name	Mixture
CAS No.	Mixture
Trade Name	OSBORN HIGH TECH ELEC CLEANER 76334
Product Code	M-5722

#### Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Electronics Cleaner
Uses Advised Against	None
Company Identification	Osborn 2350 Salisbury Road North Richmond, IN 47374 USA
Telephone	(765) 965-5333
Fax	(765) 935-0212
E-Mail (competent person)	<a href="mailto:marketsupport@osborn.com">marketsupport@osborn.com</a>

#### Emergency telephone number

Emergency Phone No.	<b>Transportation Emergency:</b> CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam. Aerosol 1; Compressed gas; Repr. 1B; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; STOT RE 2

#### Label elements

Hazard Symbol



**DANGER**

Signal word(s)

Hazard Statement(s)

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
May damage fertility or the unborn child.  
Causes skin irritation. Causes serious eye irritation.  
May cause drowsiness or dizziness.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure: Liver, Central nervous system.

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not pierce or burn, even after use.  
Use only outdoors or in a well-ventilated area.  
Avoid breathing mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash hands and exposed skin after use.  
Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Precautionary Statement(s)

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Other hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.	CAS No.	Hazard classification
1-Bromopropane	50	106-94-5	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 1B; H360 STOT SE 3; H335, H336 STOT RE 2; H373 Aquatic Acute 3; H402 Aquatic Chronic 3; H412
1,1,1,2-Tetrafluoroethane	50	811-97-2	Compressed gas; H280

Additional Information –None.

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

Skin Contact

Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Take off contaminated clothing and wash it before reuse.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Immediately call a POISON CENTER or doctor/physician. Do not give anything by mouth to an unconscious person.

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

May cause drowsiness or dizziness.

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

- Suitable Extinguishing Media
- Unsuitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray. Do not use water jet.

### Special hazards arising from the substance or mixture

Pressurised container: May burst if heated

### Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Eliminate sources of ignition. Avoid contact with skin and eyes. Avoid breathing spray. Wear protective gloves/eye protection.

**Environmental precautions**

Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.

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**Methods and material for containment and cleaning up**

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

**Reference to other sections**  
**Additional Information**

None  
None

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

Eliminate sources of ignition. Avoid contact with skin and eyes. Avoid breathing spray. Wear protective gloves/eye protection.

**Conditions for safe storage, including any incompatibilities**

-Storage temperature

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

-Incompatible materials

This product should be stored away from sources of strong heat , oxidizing agents, reducing agents, and strong acids. Do not mix with finely divided alkali or alkaline earth metals. May attack some plastics, rubbers, and coatings.

**Specific end use(s)**

Electronics Cleaner

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits**

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
1-Bromopropane	106-94-5	----	0.1 ppm	----	-----	----

\*Assure minimum oxygen content of work atmosphere.

**Recommended monitoring method**

NIOSH 1025 (Bromopropane)

**Exposure controls**

**Appropriate engineering controls**

Use only with adequate ventilation to keep exposures (airborne levels of dust, fume, vapour etc) below recommended exposure limits.

**Personal protection equipment**

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.



Respiratory protection

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.



Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

**Environmental Exposure Controls**

Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Appearance  
Color.

Aerosol spray  
Clear

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Odor	Sweet
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	-129.5 (1-Bromopropane)
Boiling point/boiling range (°C):	63.4 (1-Bromopropane)
Flash Point (°C)	-25.5 (1-Bromopropane)
Evaporation Rate	Not available
Flammability (solid, gas)	Flammable Liquid
Explosive Limit Ranges	Lower= 4.6 Upper=7.8% (1-Bromopropane)
Vapor pressure (Pascal)	22.7 x 10 <sup>4</sup> (1-Bromopropane)
Vapor Density (Air=1)	Not available
Density (g/ml)	4.34 (1-Bromopropane)
Solubility (Water)	2.5 g/l (1-Bromopropane)
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	370 (1-Bromopropane)
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	Not available
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
<b>Other information</b>	None

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Avoid contact with heat and ignition sources.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition product(s)</b>	None known.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

**Information on toxicological effects**

1-Bromopropane (CAS No. 106-94-5):

<b>Acute toxicity</b>	Oral LD50 >2000 mg/kg bw (rat) Dermal LD50 >2000 mg/kg bw (rat) Inhalation LC50 14,374 ppm (4 hour(s)) (rat)
<b>Irritation/Corrosivity</b>	Causes skin irritation. Causes serious eye irritation.
<b>Sensitization</b>	It is not a skin sensitizer.
<b>Repeated dose toxicity</b>	May cause damage to organs through prolonged or repeated exposure: Liver, Central nervous system.
<b>Carcinogenicity</b>	It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

<b>Mutagenicity</b>	Negative
<b>Reproductive toxicity</b>	May damage fertility or the unborn child.
<b>Other information</b>	None known.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

1-Bromopropane (CAS No. 106-94-5):

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Short term	LC50 (96 hour): 24.3 mg/L (Fish) EC50 (48 hour): 99.3 mg/L (Daphnia magna) ErC50 (96 hour): 72.3 mg/L (Algae)
Long Term	Not available.
Persistence and degradability	Not readily biodegradable.
Bioaccumulative potential	Not available.
Mobility in soil	Not available.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
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## SECTION 14: TRANSPORT INFORMATION

	<u>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

## SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: Bromopropane (CAS No. 106-64-5)

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

SARA 311/312 - Hazard Categories:

Fire     Sudden Release     Reactivity     Immediate (acute)     Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	-----

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
1-bromopropane	106-94-5	Developmental, female, male

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: May 14, 2015

# OSBORN HIGH TECH ELECTRONIC CLEANER 76334

**Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:**

**Hazard Statement(s)**

- H225: Highly flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H360: May damage fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H402: Harmful to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

**Training advice:** None.

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