

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) <u>marketsupport@osborn.com</u>

Emergency telephone number

Emergency Phone No. Transportation Emergency: CHEMTREC 24 hr. 1-800-424-

9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Label elements

Hazard Symbol

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



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.

Precautionary Statement(s)

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 no expose to temperatures exceeding 50°C/ 122°F.

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
	50 100		Flam. Liq. 2; H225
			Skin Irrit. 2; H315
			Eye Irrit. 2; H319
1 Promonronono		106-94-5	Repr. 1B: H360
1-Bromopropane		100-94-5	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

Advice for fire-fighters

Pressurised container: May burst if heated

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

Environmental precautions

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

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

release to the

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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 None Additional Information None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handlingEliminate 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

			(8h	r TWA)	(ST	EL)	
			PEL				
	SUBSTANCE.	CAS No.	(OSHA)	TI V (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
	OODO I AITOL.	07.0 110.	(551174)	127 (7.00111)	1 == (551174)	127 (7100111)	110101
1-Bro	omopropane	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 Aerosol spray

Color.

Odor Sweet
Odor Threshold (ppm) Not available
pH (Value) Not available

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

63.4 (1-Bromopropane)

Flash Point (°C)

Evaporation Rate

Flammability (solid, gas)

-25.5 (1-Bromopropane)

Not available

Flammable Liquid

Explosive Limit Ranges Lower= 4.6 Upper=7.8% (1-Bromopropane)

Vapor pressure (Pascal) 22.7 x 10⁴ (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

Solubility (Other)

Not available
Partition Coefficient (n-Octanol/water)

Not available

Auto Ignition Point (°C)

Not available
370 (1-Bromopropane)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt)

Not available

Explosive properties

Not explosive.

Oxidizing properties

Not oxidizing.

Other information None

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Avoid contact with heat and ignition sources.

Incompatible materials Strong oxidising agents.

Hazardous decomposition product(s) None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects
1-Bromopropane (CAS No. 106-94-5):

Acute toxicity Oral LD50 >2000 mg/kg bw (rat)

Dermal LD50 >2000 mg/kg bw (rat)

Inhalation LC50 14,374 ppm (4 hour(s)) (rat)

Irritation/Corrosivity Causes skin irritation. Causes serious eye irritation.

Sensitization It is not a skin sensitizer.

Repeated dose toxicity

May cause damage to organs through prolonged or repeated

exposure: Liver, Central nervous system.

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

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

Mutagenicity Negative

Reproductive toxicity

May damage fertility or the unborn child.

Other information None known.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

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

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.

SECTION 14: TRANSPORT INFORMATION

	U.S. DOT	Sea transport (IMDG)	Air transport (ICAO/IATA)
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:

 \square Fire \square Sudden Release \square Reactivity \square Immediate (acute) \square 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

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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