

# 1.) Identification of the Mixture and of the Company

Product identifier: 415 Contact Cleaner - Aerosol

Product name: 415 Contact Cleaner

Relevant identified uses of the substance: Safe for use on electrical components, connectors, contacts, magnetic tape heads, semiconductor assemblies, office equipment, printer circuits, computer components, relays and controls, telephone equipment typewriters, and TV tuners.

Uses advised against: Do not use on electronic equipment or machinery while in operation.

CAS No: Not Applicable (mixture)
EC No: Not Applicable (mixture)
Index No: Not Applicable (mixture)

Manufacturer/Supplier: Aervoe Industries Incorporated

Street address/P.O. Box: 1100 Mark Circle

Country ID/Postcode/Place Gardnerville, Nevada 89410

Telephone number: 1-775-782-0100

e-mail: mailbox@aervoe.com

National contact: Aervoe industries Incorporated

For Product Information: 1-800-227-0196

Emergency telephone number: 1-800-424-9300 (CHEMTREC – 24 hrs)

## 2. Hazards identification

#### Classifications

Physical Hazards: Aerosol - Category 1

Press. Gas Flam. Liq. 2

Health Hazards: Eye Irrit. 2

STOT SE 3 Asp. Tox. 1 Repr.2 STOT RE 2 Skin. Irrit. 2

Environmental Hazards: Aquatic Chronic 3

Labeling

Signal Word: Danger

**Hazard Statements:** 

H222 – Extremely Flammable Aerosol

# Safety Data Sheet (SDS)

Date Prepared/Revised: 8/8/23 Version no.: 04 Supersedes: (9/6/18)

H225 – Highly flammable liquid and vapour.

H229 – Pressurized container: may burst if heated

H304 – May be fatal if swallowed and enters airways

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H336 – May cause drowsiness or dizziness.

H340 – May cause genetic defects

H350 – May cause cancer

H361 – Suspected of damaging fertility or the unborn child.

H373 – May cause damage to nervous system through prolonged or repeated exposure(Inhalation)

H411 – Toxic to aquatic life with long lasting effects.

# **Precautionary Statements:**

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

P210 - Keep away from heat/sparks/open flames/hot surfaces - no smoking

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P262 - Do not get in eyes, on skin, or on clothing

P264 - Wash ... thoroughly after handling

P280 - Wear protective gloves/eye protection/face protection

P303+P361+P353 - If on skin or hair, remove/takeoff immediately all contaminated clothing. Rinse skin with water/shower.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding  $50^{\circ}\text{C}/122^{\circ}\text{F}$ 

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation

P251 - Pressurized container: Do not pierce or burn, even after use



# Symbols/Pictograms:

# 3. Composition / Information on Ingredients

# Composition

Chemical	Synonyms	CAS	EINECS	Weight	Hazard	H-Code
		Number	Number	Percent	Category	
Hexane	n-Hexane	110-54-3	203-777-6	30-60%	Flam. Liq. 2	H225
					Repr. 2	H361f ***
					Asp. Tox. 1	H304

					STOT RE 2	H373 **
					Skin Irrit. 2	H315
					STOT SE 3	H336
					Aquatic	H411
					Chronic 2	
Isonrononal	Isonronyl	67-63-0	200-661-7	15-40%	Flom Lig 2	H225
Isopropanol	Isopropyl	07-03-0	200-001-7	13-40%	Flam. Liq. 2	
	Alcohol				Eye Irrit. 2	H319
					STOT SE 3	H336
Ethanol	Ethyl Alcohol	64-17-5	200-578-6	3-7%	Flam. Liq. 2	H225
Carbon Dioxide	CO2	124-38-9	204-696-9	3-7%	N/AV	H229

## **Other Product Information**

Chemical Identity: Mixture

# 4.) First Aid Measures

**General Advice:** If symptoms persist, always call a doctor.

**Inhalation First Aid:** Remove victim to fresh air and provide oxygen if breathing is

difficult. If not breathing, give artificial respiration, preferably

mouth to mouth. Get medical attention immediately.

**Skin Contact First Aid:** Wash with soap and water. Remove contaminated clothing and

shoes. Get medical attention immediately. Wash clothing before

reuse.

**Eye Contact First Aid:** If contact with eyes, immediately flush eyes with plenty of water

for at least 15 minutes, while holding eyelids open. Get medical

attention immediately.

**Ingestion First Aid:** If swallowed, wash out mouth with water provided the person is

conscious. Do not induce vomiting. Never give anything by mouth

to an unconscious person. Get medical attention immediately.

**Most Important** 

**Symptoms/Effects:** Exposure may cause slight irritation to the skin, eyes, and respiratory tract.

Excessive exposure may cause central nervous system effects.

# 5. Fire Fighting Measures

Flammable Properties: Aerosol



Auto Ignition Temperature: Not Available

Suitable extinguishing media: Carbon dioxide, dry chemical, water spray.

Unsuitable extinguishing media:

Special hazards arising from the

substance or mixture:

None known

None known

Hazardous combustion products: Carbon dioxide, Carbon monoxide

Fire & Explosion Hazards: Closed Containers may rupture due to the buildup of pressure

from extreme temperatures.

Precautions for fire-fighters: Use water spray to cool containers exposed to heat or fire to prevent

pressure build up. In the event of a fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full face piece

operated in the pressure demand or other positive pressure mode.

# 6. Accidental Release Measures

#### PERSONAL PRECAUTIONARY MEASURES:

- 1) Follow personal protective equipment recommendations found in section 8.
- 2) Maintain adequate ventilation.

#### SPILL CLEAN-UP PROCEDURES:

- 1.) Evacuate unprotected personnel from the area.
- 2.) Remove sources of ignition if safe to do so.
- 3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
- 4.) Contain spill to prevent material from entering sewage or ground water systems.
- 5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

# 7. Handling and Storage

# Handling:

Flammable Aerosol, use in a well ventilated area.

Do not use near sources of ignition.

Do not to eat, drink and smoke while working with this material.

Wash hands after use.

# Conditions for safe storage, including any incompatibilities:

Store out of direct sunlight.

Storage Temperature: 32° to 120°F (0° to 49°C).

No known incompatibilities.

# 8. Exposure Controls / Personal Protection

# **Appropriate engineering controls:**

Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

#### **Personal Protection:**

Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

## **Skin protection**

Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

# **Respiratory protection:**

Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

Hazardous Ingredient	CAS Number	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL (TWA)	OSHA PEL (STEL)
Hexane	110-54-3	50PPM	N/A	500PPM	N/A
Isopropanol	67-63-0	200PPM	400PPM	400PPM	N/A
Ethanol	64-17-5	N/A	1000PPM	1000PPM	N/A
Carbon Dioxide	124-38-9	5000PPM	30000PPM	5000PPM	N/A

<sup>\*</sup>Values are based on the 2019 Guide to Occupational Exposure Values by ACGIH

# 9. Information on Basic Physical and Chemical Properties

Appearance: Clear, colorless	Odor: Hydrocarbon odor
Odor Threshold: N/AV	pH: Not Applicable (solvent Base)
Melting Point: N/AV	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: <0° F (-18° C)	Evaporation Rate: Faster Than n-Butyl
	Acetate
Flammability Solid/Gas: Flammable aerosol	LEL: 1.1% UEL: 36%
Vapor Pressure: N/AV	Vapor Density: Heavier Than Air
Relative Density: N/AV	Solubility: Negligible
Partition Coefficient:	Auto-ignition Temperature: N/AV
n-octanol/ water: N/AV	
Decomposition Temperature: N/AV	Viscosity: N/AV
Explosive Properties: N/AV	Oxidizing Properties: N/AV

# 10. Stability & Reactivity

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions

Chemical stability: Stable under normal conditions Conditions to avoid: Heat and ignition sources Incompatible materials: Strong Oxidizing Agents Hazardous decomposition products: Will not occur

# 11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data: (Hexane) LD50: 2870 mg/kg (Rat-Oral)

Eye irritation data: N/AV

Skin irritation/sensitization/absorption data: N/AV Reproductive toxicity data: N/AV

Mutagenicity data: N/AV

Symptoms associated with physical contact: N/AV

Acute/chronic effects from short/long

term exposure: Irritating to skin. Prolonged/repeated contact may

cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.

Known reportable carcinogens via the

following agencies:

NTP: N/AV IARC: N/AV OSHA: TLV-A3

# 12. Ecological Information

Ecotoxicity: No Data Available

Persistence and degradability: **No Data Available** Bioaccumulative potential: **No Data Available** 

Mobility in soil: No Data Available

Results of PBT and vPvB assessment: No Data Available

Other adverse effects: No Data Available

# 13. Disposal Considerations

**Waste Disposal:** Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or

laws governing your location.

**Product / Packaging disposal:** Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

# 14. Transportation Information

#### **US DOT**

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference 49
			Applicable	Applicable	CFR 172.101

#### **IMDG**

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference
			Applicable	Applicable	IMDG code
					part 3

#### IATA:

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols, Flammable	2.1	Not	Not	Reference
			Applicable	Applicable	IATA
					Dangerous
					Goods
					Regulation

# 15. Regulatory Information

# **Workplace classification:**

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

#### **SARA Title 3:**

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard. Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

**TSCA status:** All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR. **PROP 65 (CA):** WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov.

# 16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

Date of Preparation/Revision: 8/8/23

**Supersedes:** (9/6/18)

To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.