**Section 1. Product and Company Identification**

**Product name** : Contact Cleaner

**Product code** : HG5506

**Other means of** : Not available.

**Identification**

**Product type** : Aerosol

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

Not applicable.

**Manufacturer** : Hi-Gear Products, Inc.

 14 Brent Drive

 Hudson, MA 01749

**Emergency telephone** : (800) 424-9300 Contract #10506 (US & Canada)

**number of the company** (703) 527-3887 (International)

**Product Information** : (978) 562-8522

**Telephone Number**

**Regulatory Information** : (978) 562-8522

**Telephone Number**

**Transportation Emergency** : (800) 424-9300 Contract #10506

**Telephone Number**

**Section 2. Hazards Identification**

**Routes of Entry** : Eyes – Yes Skin – Yes Inhalation – Yes Ingestion – Unlikely

**Target Organs** : Eyes, Skin, Respiratory System

**Inhalation** : May cause respiratory tract irritation.

**Skin Contact** : Prolonged contact with skin may cause irritation, de-fatting and burning of skin.

**Eye Contact** : May cause irritation. Symptoms include stinging, tearing, redness and swelling of eyes.

**Ingestion** : ASPIRATION HAZARD – This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage. Swallowing large amounts may be harmful

**NFPA** : Health =2 Fire = 3 Reactivity = 0

**HMIS III** : H\*2/F3/PH0





√

2

3

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0

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B I Safety Glasses, Gloves

**GHS Signal Word** : DANGER

**GHS Hazard Pictograms** :

   

**GHS Classifications** : Physical, Flammable Aerosols, 1

Health, Aspiration hazard, 1

 Health, Skin corrosion/irritation, 2

 Health, Serious Eye Damage/Eye Irritation, 2 A

 Health, Acute toxicity, 5 Inhalation

 Health, Specific target organ toxicity – Single exposure, 3

 Health, Reproductive toxicity, 2

 Health, Specific target organ toxicity – Single exposure, 1

 Health, Carcinogenicity, 2

**GHS Phrases** : H222 – Extremely flammable aerosol

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

 H333 – May be harmful if inhaled

 H335 – May cause respiratory irritation

 H336 – May cause drowsiness or dizziness

 H361 – Suspected of damaging fertility or the unborn child

 H370 – Causes damage to organs

 H351 – Suspected of causing cancer

**GHS Precautionary** : P102 – Keep out of reach of children.

 **Statements** P210 – Keep away from heat/sparks/open flames/hot surfaces. No smoking.

 P243 – Take precautionary measures against static discharge.

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

 P261 – Avoid breathing dust/fume, gas/mist/vapors/spray.

 P262 – Do not get in eyes, on skin or on clothing.

 P270 – Do not eat, drink or smoke when using this product.

 P27 3 – Avoid release to the environment.

 P281 – Use personal protective equipment as required.

 P285 – In case of inadequate ventilation wear respiratory protection.

 P301+330+331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

 P301+312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

 P302+352 – IF ON SKIN: Wash with soap and water.

 P304+341 – IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

 P305+351+338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

 P314 – Get medical advice/attention if you feel unwell.

 P410+412 – Protect from sunlight. Do not expose to temperatures exceeding 50 oC/122 oF.

**CONDITIONS AGGRAVATED BY EXPOSURE:** Preexisting skin, lung, cardiovascular and liver disorders (asthma like)

**LISTED CARCINOGENS:** OSHA – Not listed IARC – Group 2 NTP – Reasonably Anticipated

**Section 3. Composition/information on ingredients**

|  |  |  |
| --- | --- | --- |
| **Chemical name** | **CAS No.** | **Percent** |
| Hexane | 110-54-3 | 60-80 |
| Propane | 74-98-6 | 10-30 |
| 2-Propanol | 67-63-0 | 10-30 |

**Section 4. First aid measures**

 **Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

  **Inhalation** : Move to fresh air and keep at rest. Call a physician if symptoms develop and persist.

 **Skin contact** : Wash with soap and water. If skin irritation persists, call a physician immediately. Remove contaminated clothing and wash before reuse.

 **Ingestion** : Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low to avoid getting into the lungs. Call a poison center if large amounts are ingested. Never give anything by mouth to an unconscious person.

**Notes to Physician:**

Treatment of methylene chloride overdose should be symptomatic and supportive and may include the following:

1. Do not induce vomiting. Consider administration of activated charcoal.
2. Consider nasogastric tube for gastric aspiration in patients with recent large ingestion; weigh benefit against risk of damaging burned gastrointestinal mucosa.
3. Determine carboxyhemoglobin concentration and liver and kidney function in symptomatic patients. Administer 100% oxygen as indicated by clinical status and carboxyhemoglobin levels.
4. For seizures, administer intravenous diazepam or lorazepam. If seizures recur, consider phenobarbital. Monitor for hypotension, dysrhythmias, respiratory depression and need for endotracheal intubation. Evaluate for hypoglycemia, electrolyte imbalances and hypoxia.
5. For hypotension, infuse isotonic fluid. If hypotension persist, administer dopamine or norepinephrine.
6. For acute lung injury: Maintain ventilation and oxygenation and evaluate with frequent arterial blood gas or pulse oximetry monitoring. Early use of PEEP and mechanical ventilation may be needed. (Meditext 2008)

**Section 5. Fire-fighting measures**

**Flammability** : Extremely Flammable per flame projection method.

**Flash Point** : -156 oF (-104.4 oC) (propellant)

**Flash Point Method** : Open cup

**Burn Rate** : ND

**Autoignition Temp** : Not established

**LEL** : Not established

**UEL** : Not established

**Means of Extinction:**

 **Suitable Extinguishing** : Powder, water spray, foam, carbon dioxide.

 **Media**

 **Unsuitable Extinguishing** : Not available

 **Media**

**Products of Combustion** : May include, and are not limited to: oxides of carbon.

**Explosion Data:**

 **Sensitivity to Mechanical** : Not available.

 **Impact**

 **Sensitivity to Static** : Not available.

 **Discharge**

 **Protection of Fire-fighters** : Containers may explode when heated. Keep upwind of fire. Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (SCBA).

**Section 6. Accidental release measures**

**Personal Precautions** : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

**Environmental Precautions** : Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment** : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Clean-Up** : Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

**Section 7. Handling and storage**

**Handling Precautions** : HARMFUL IF INHALED OR SWALLOWED. VAPOR HARMFUL. VAPORS MAY CAUSE FLASH FIRE. EYE, SKIN AND RESPIRATORY IRRITANT. Contents under pressure. Keep out of reach of children. Read label cautions carefully. Follow label directions to avoid injury. Use with adequate ventilation. Do not use in confined areas. Keep away from heat, sparks or open flames. Wash hands thoroughly after each use. Do not smoke while using. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not puncture container. Vapors can cause flash fires.

**Storage Requirements** : Keep out of reach of children. Do not store near heat, sparks or open flames. Do not expose to temperatures above 120 oF as container may vent, rupture or burst. Do not puncture or incinerate container. Store in accordance with NFPA 30B for LEVEL 3 AEROSOL.

**Section 8. Exposure controls/personal protection**

**Engineering Controls** : Use ventilation adequate to keep exposures below recommended exposure limits.

**Personal Protective** : HMIS PP, B I Safety Glasses, Gloves

 **Equipment** Eye Protection: Wear eye/face protection.

 Hand Protection: Wear suitable gloves.

 Skin and Body Protection: Wear suitable protective clothing.

 Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

**EXPOSURE LIMITS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Ingredients** | **OSHA-PEL** | **ACGIH-TLV** | **OTHER** |
| 2-Propanol | 400 ppm | 200 ppm |  |
| Hexane | 500 ppm | 50 ppm |  |
| Propane | 1000 ppm | No data |  |

**Section 9. Physical and chemical properties**

**Appearance** : clear, colorless liquid

**Physical State** : Mixture packaged in pressurized aerosol spray can.

**Odor** : Solvent

**Odor Threshold** : ND

**Molecular Formula** : ND

**Particle Size** : ND

**Solubility** : Insoluble in water

**Spec. Grav./Density** : 1,000-1.010 gg/ml (concentrate)

**Softening Point** : ND

**Viscosity** : ND

**Percent Volatile** : 100%

**Saturated Vapor Conc.** : ND

**Heat Value** : ND

**Boiling Point** : ND

**Freezing/Melting Point** : ND

**Flammability** : Extremely flammable

**Flash Point** : -156 oF (-104.4 oC) Propellant

**Partition Coefficient** : ND

**Octanol** : ND

**Vapor Pressure** : ND

**Vapor Density** : ND

**pH** : Not applicable

**VOC** : 100%

**Evaporation Rate** : ND

**Bulk Density** : ND

**Molecular Weight** : ND

**Auto-Ignition Temp.** : ND

**UFL/LFL** : Not established

**Section 10. Stability and reactivity**

**Stability** : Product is stable under normal conditions.

**Conditions to Avoid** : Heat, sparks, open flames and temperatures above 120 oF.

**Materials to Avoid** : Aluminum, zinc, magnesium and their alloys. Bases, Oxygen, Amines, Reactive metals, Sodium, Potassium, Strong oxidizing agents, alkali metals.

**Hazardous Decomposition** : CO, CO2, hydrocarbons, hydrogen chloride and chlorine, phosgene.

**Hazardous Polymerization** : Will not occur.

**Section 11. Toxicological information**

No product toxicological information is available.

**Section 12. Ecological information**

No product ecological information is available.

**Section 13. Disposal considerations**

**Disposal methods** : Do not allow into drains or water sources. Waste and empty containers should be disposed of in accordance with regulations made under the Control of Pollution Act. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether special regulations apply.

**Section 14. Transport information**

**DOT Class** : Flammable Gas (2.1) #21.

 UN #1950

**UN Number** : UN1950

**Proper Shipping Name** : Aerosol, limited quantity

**Transport Hazard Class(es)** : 2.1 (flammable gas)

**Packing Group** : Not applicable

**Section 15. Regulatory information**

**COMPONENT / (CAS/PERC) / CODES**

\*Hexane (110543 20-40%) CERCLA, HAP, MASS, OSHAWAC, PA SARA313, TSCA, TXAIR

\*Propane (74986 10-30%) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR

\*2-Propanol (67630 n/a%) MASS, NJHS, NRC, OSHAWAC, PA, SARA313, TSCA, TXAIR

**Regulatory Key Descriptions**

CERCLA : Superfund Clean Up Substance

HAP : Hazardous Air Pollutants

MASS : MA Massachusetts Hazardous Substances List

NJHS : NJ Right-to-Know Hazardous Substances

NRC : Nationally Recognized Carcinogens

OSHAWAC : OSHA Workplace Air Contaminants

PA : PA Right-to-Know List of Hazardous Substances

PRIPOL : Clean Water Act Priority Pollutants

PROP65 : CA Prop 65

SARA313 : SARA 313 Title III Toxic Chemicals

TOXICPOL : Clean Water Act Toxic Pollutants

TOXICRCRA : RCRA Toxic Hazardous Wastes (U-List)

TSCA : Toxic Substances Control Act

TXAIR : TX Air Contaminants with Health Effects Screening Level

TXHWL : TX Hazardous Waste List

CSWHS : Clean Water Act Hazardous Substances

EPCRAWPC : EPCRA Water Priority Chemicals

**Section 16. Other information**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof. Because the information contained herein may be applied under conditions beyond our control, we assume no responsibility for its use.