CO CONTACT CLEANER

Product Description

CO CONTACT CLEANER is a mild, stable and inert cleaner, meant to clean highly sensitive electronic precision equipment. It is used for removal of light contaminants, dust, lint, moisture, atmospheric or light oils and has the following main characteristics:

Rapid and complete evaporation
Highly purity - leaves no residues
Effective - low surface tension, high density with selective solvency
Safe to use because harmless on
Non-staining and stable
Ultrasonic and vapour degreasing supplement

CO CONTACT CLEANER, is sold only in aerosol containers to preserve high purity. High purity is necessary for cleaning of electronic components and contacts because residues of cleaning materials can also increase resistance to change capacitance of frequency. The content of insoluble residue in CO CONTACT CLEANER, is 10 parts per million or less.

CO CONTACT CLEANER, can be used as a supplement to or instead of vapour degreasing or ultrasonic cleaning. Disassembly and re-assembly of equipment components is eliminated because of cleaning thanks to the aerosol package. How does CO CONTACT CLEANER work?

Efficient and thorough cleaning results from a low surface tension and high density. The low surface tension permits penetration into microscopic pores and cracks and also allows for good wetting properties. The weight pressure from the high density aids in penetration. The pressure due to application by aerosol forces residual contamination from the surface and dissolved oils are removed with solvent in a matter of seconds.

Technical Data

<table>
<thead>
<tr>
<th>S.No</th>
<th>PROPERTIES (ISO VG)</th>
<th>460</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>Distillation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Initial Boiling</td>
<td>0.87</td>
</tr>
<tr>
<td></td>
<td>Point °C, min</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>b) Dry Point, °C Max</td>
<td>70</td>
</tr>
<tr>
<td>2)</td>
<td>Composition</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>a) Aromatics, % V.max</td>
<td>155</td>
</tr>
<tr>
<td></td>
<td>b) Saturates, % V.max</td>
<td></td>
</tr>
<tr>
<td>3)</td>
<td>Density at 25 °C, max</td>
<td>0.687</td>
</tr>
<tr>
<td>4)</td>
<td>Colour (Saybolt)</td>
<td>30</td>
</tr>
<tr>
<td>5)</td>
<td>Sulphur content, ppm, max</td>
<td>75</td>
</tr>
<tr>
<td>6)</td>
<td>Copper strip corrosion, 3hrs, at 50 °C, max</td>
<td>1</td>
</tr>
</tbody>
</table>
1. IDENTIFICATION

PRODUCT: CO CONTACT CLEANER

Supplier: - Petrelplus Inc.
Level17, DLH Park,
Ramla Compound, S.V. Road,
Near Goregaon Flyover, Goregaon (w),
Mumbai-400064, Maharashtra.
Call # +91 22 6216 7072 (Monday to Friday)
Cell # +91 93522 25457
marketing@petrelplus.com
www.petrelplus.com

2. COMPOSITION

Aliphatic Hydrocarbon
CAS No. 110-54-3
Chemical Name: Liquified petroleum gas
CAS No. 68476-85-7
Proprietary additives

3. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Yes</th>
<th>LEL</th>
<th>1.2%</th>
</tr>
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<tbody>
<tr>
<td>TDG Flammability</td>
<td>3</td>
<td>UEL</td>
<td>7.5%</td>
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<tr>
<td>Flash Point°C</td>
<td>-21.7 (OC)</td>
<td></td>
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<tr>
<td>Auto ignition Temperature °C</td>
<td>225</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosion sensitivity</td>
<td>Stable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosion sensitivity to static Electricity Explodes</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Hazardous combustion products</td>
<td>Emits acrid smoke &amp; fumes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous poly</td>
<td>Will not occur</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combustible liquid</td>
<td>YES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive material</td>
<td>NO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corrosive material</td>
<td>NO</td>
<td></td>
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</tr>
<tr>
<td>Flammable Material</td>
<td>YES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizer</td>
<td>NO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>NA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pyrophoric Material</td>
<td>NO</td>
<td></td>
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<tr>
<td>Organic Peroxide</td>
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</table>

4. FIRST – AID MEASURES

INHALATION: Maintain respiration, provide oxygen if required. Do not induce vomiting.

INGESTION: Do not induce vomiting. Wash mouth out with water and obtain medical attention.

EYES: Rinse immediately with plenty of water for at least 10 minutes. Get Medical Attention

SKIN: Remove contaminated clothing. Wash affected area with soap and water, get medical attention.

5. FIRE-FIGHTING METHODS

Fire Extinguishing: CO2, Dry Chemical Powder, Foam. Do not use water jet.

Special procedure
Keep the containers cool by spraying water if exposed to heat or flame
Unusual Hazard: Flash back along vapour trail may occur

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken
Shut off leaks if without risk. Absorb on sand or earth. Wash the surface with water & soap.
Wastage Disposal Method
Spray in to a furnace. Incineration will become easier by mixing more flammable solvent.
7. STORAGE AND HANDLING

HANDLING: Use with adequate ventilation.
STORAGE: Store away from heat.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT
EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.
SKIN: The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Viton, Solvex, Butyl, Buna, Neoprene.
RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator’s use.
WORK HYGIENIC PRACTICES: Avoid contact with eyes. Avoid fume inhalation. Limit skin contact.
OTHER USE PRECAUTIONS: Emergency shower and eyewash facility should be in close proximity.

9. PHYSICAL AND CHEMICAL PROPERTIES

Initial Boiling Point °C, min: 63
Dry Point, °C Max: 70
Density at 25 °C, max : 0.687
Colour (Saybolt) : +30
Sulphur content, ppm, max : 75

10. STABILITY AND REACTIVITY

STABILITY: Stable.
POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Stable. However, may decompose if heated.
HAZARDOUS DECOMPOSITION PRODUCTS: None known
INCOMPATIBLE MATERIALS: Oxidizing agents, alkaliies and bases.

11. TOXICOLOGY

INFORMATION EYES: Moderately to severely irritating
DERMAL LD50: Mildly to moderately irritating.
ORAL LD50: Slight to very low toxicity.
INHALATION LC50: Slight to very low toxicity.

12. ECOLOGICAL INFORMATION ENVIRONMENTAL DATA:

There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

13. DISPOSAL CONSIDERATIONS FOR LARGE SPILLS:

Contaminated sawdust, vermiculite, or porous surfaces must be disposed of in a permitted hazardous waste management facility. Recovered liquids may be reprocessed or incinerated or must be treated in a permitted hazardous waste management facility.

GENERAL COMMENTS: Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION DOT

(DEPARTMENT OF TRANSPORTATION) PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D PRIMARY HAZARD CLASS/DIVISION: No classification UN/NA NUMBER: N/A PACKING GROUP: N/A AIR (ICAO/IATA) SHIPPING NAME: CONSUMER COMMODITY ID8000 UN/NA NUMBER: ID8000 PRIMARY HAZARD CLASS/DIVISION: 9 PACKING GROUP: N/A VESSEL (IMO/IMDG) SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2 UN/NA NUMBER: 1950 PRIMARY HAZARD CLASS/DIVISION: 2.2 PACKING GROUP: N/A 15. REGULATORY INFORMATION UNITED STATES SARA TITLE III (SUPERFUND AMENDMENTS AND
REAUTHORIZATION ACT)311/312 HAZARD CATEGORIES: IMMEDIATE / DELAYED PRESSURE GENERATING: Yes ACUTE: Yes CHRONIC: Yes TITLE III NOTES: Not listed as an Extremely Hazardous Substance. 16. OTHER INFORMATION MANUFACTURER DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, Petrelplus Inc. assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.