SECTION 1 IDENTIFICATION OF THE SUBSTANCE

PRODUCT NAME: CL-FAE Cleaner

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Danger</th>
<th>Highly flammable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>State of matter</td>
<td>Liquid colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Pungent</td>
</tr>
</tbody>
</table>

Potential environmental effects

Environmental precautions: Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

Potential health effects

Acute effects
- Eyes: Causes eye irritation.
- Skin: Prolonged or repeated contact may dry skin and cause irritation
- Inhalation: May cause respiratory tract irritation
- Ingestion: Aspiration hazard if swallowed - can enter lungs and cause damage

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>100.00</td>
</tr>
</tbody>
</table>

SECTION 4 FIRST AID MEASURES

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Inhalation: Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE-FIGHTING MEASURES

Flash Point: -20 °C
Auto ignition temperature: 465°C
Explosion limits
- Lower explosion limit: 2.6 %(V)
- Upper explosion limit: 12.8 %(V)
Fire/explosion: Flash back possible over considerable distance
Hazardous combustion products: Carbon oxides
Suitable extinguishing media: Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2)
Protection measures and instructions: Wear self-contained breathing apparatus and protective suit.
Further information: Cool containers / tanks with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapors or spray mist.
Environmental precautions: Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste.

SECTION 7 HANDLING AND STORAGE

Safe handling advice: Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations.
Advice on protection against fire and explosion: Keep away from heat and sources of ignition. Use explosion-proof equipment.
Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.
SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures
Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eyes
Safety glasses with side-shields

Skin
Protective suit and safety shoes

Inhalation
In case of insufficient ventilation, wear suitable respiratory equipment

Hand protection
Gloves suitable for permanent contact:

Hygiene measures
Wash hands before breaks and immediately after handling the product.

Protective measures
Wear suitable protective equipment

Exposure Guidelines

Components Exposure limit(s)
Acetone

US. ACGIH Threshold Limit Values time weighted average 500 ppm
US. ACGIH Threshold Limit Values Short term exposure limit 750 ppm
US. NIOSH: Pocket Guide to Chemical Hazards Recommended exposure limit (REL): 250 ppm (590 mg/m3)
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Permissible exposure limit 1,000 ppm (2,400 mg/m3)
US. OSHA Table Z-1-A (29 CFR 1910.1000) time weighted average 750 ppm (1,800 mg/m3)
US. OSHA Table Z-1-A (29 CFR 1910.1000) Short term exposure limit 1,000 ppm (2,400 mg/m3)

PEL= Permissible Exposure Limits  
TLV= Threshold Limit Value  
EL= Excursion Limit  
WEEL= Workplace Environmental Exposure Level

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Color
colorless

Odor
pungent

Form
liquid

Boiling point/boiling range
56.2 °C

Flash point
-20 °C

Lower explosion limit
2.6 %(V)

Upper explosion limit
12.8%(V)

Vapor pressure
307.974 hPa at 25 °C

Solubility
soluble

Viscosity
0.4 mm2/s

Melting point/range
-95.35 °C

Density
0.79 g/cm3

SECTION 10 STABILITY AND REACTIVITY

Conditions to avoid
Heat, flames and sparks

Hazardous decomposition products
Carbon oxides

Incompatible products
Strong oxidizing agents  Incompatible with acids. Halogenated compounds

Hazardous reactions
Hazardous polymerization does not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute oral toxicity
Acetone
LD50 rat: 5,800 mg/kg; literature value

Acute inhalation toxicity
Acetone
LC50 rabbit: > 30 mg/l; literature; 4 h

Acute dermal toxicity
Acetone
LDLo rabbit: 20,000 mg/kg literature value

Skin irritation
Acetone
rabbit: moderately irritating; literature value

Eye irritation
Acetone
rabbit: moderate eye irritation; Draize test

SECTION 12 ECOLOGICAL INFORMATION

Biodegradability
Acetone
100%; 5 d; 89%; 21 d

Bioaccumulation
Acetone
1

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Classification

Waste from residues / unused products
In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.
Uncleaned empty packaging: Do not burn, or use a cutting torch on, the empty drum. Triple rinse containers, Can be offered for recycling, re-conditioning or puncture.

SECTION 14 TRANSPORT INFORMATION
DOT/49CFR UN 1090 Acetone, 3, II
ADR UN 1090 Acetone, 3, II
RID UN 1090 Acetone, 3, II
ADNR UN 1090 Acetone, 3, II
IMDG UN 1090 Acetone, 3, II, EmS F-E, S-D
ICAO/IATA UN 1090 Acetone, 3, II

SECTION 14 REGULATORY INFORMATION
U.S. Federal Classifications:
OSHA Hazards Flammable Liquid, Mild eye irritant, Mild respiratory irritant
SARA 311/312 Fire Hazard, Acute Health Hazard

U.S. Regulated Ingredients:
Hazard information reporting
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components CAS-No.
No chemicals in this product are subject to the reporting requirements of SARA Title III, CERCLA 67-64-1 Reportable Quantity 5,000 lbs.

Inventories
EU list of existing chemical substances All chemical constituents are listed in: EU list of existing chemical substances
US TSCA Inventory All chemical constituents are listed in: US TSCA Inventory \Australian Inv. of Chem. Substances AICS All chemical constituents are listed in: Australian Inv. of Chem. Substances AICS
Canadian Domestic Substances List DSL All chemical constituents are listed in: Canadian Domestic Substances List DSL
Jap. Inv. of Exist. & New Chemicals ENCS All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals ENCS
Korean Exist. Chemicals List ECL All chemical constituents are listed in: Korean Exist. Chemicals List ECL
Philippines Inv. of Chem. Subst. PICCS All chemical constituents are listed in: Philippines Inv. of Chem. Subst. PICCS
Inv. of Exist. Chem. Substances in China All chemical constituents are listed in: Inv. of Exist. Chem. Substances in China

Other international regulations
WHMIS Classification B2: Flammable Liquid D2B: Toxic Material Causing Other Toxic Effects

SECTION 16 OTHER INFORMATION
Hazard Ratings
<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>NFPA</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

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