Custom Chemical Solutions

Material Safety Data Sheet

1. Identification of Substance/Preparation and Company/Undertaking:
Name of Product ***Ethyl Acetate***
NFPA Ratings: **Health:** 1 **Flammability:** 3 **Reactivity:** 0

Name of Manufacturer: **CFS Chemicals**
201 Wilkinson Rd
Brampton,
ONTARIO L6T 4M4
1 (866) 669-7608

National Response in Canada: CANUTEC--1(613)996-6666
24 Hour Emergency Response in US: CHEMTREC--1(800)424-9300

2. Composition and Information on Ingredients:

ETHYL ACETATE >99%
CAS No.: 141-78-6
Fatal dose for humans:
LC_{50} (mouse-inh): Acute: LC50 = 45 gm/m3/2H [Mouse]
LD_{50} Acute: 5620 mg/kg [Rat]. 4100 mg/kg [Mouse]. 4935 mg/kg [Rabbit].

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3. Hazards Identification:

WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.
Potential Health Effects:
Inhalation: May cause respiratory tract irritation. Inhalation of high concentrations may cause narcotic effects. May be harmful if inhaled.
Eye: Liquid or vapour may cause irritation
Skin: May cause irritation
Ingestion: may result in nausea, vomiting, headaches, drowsiness, dizziness and central nervous system depression. A large dose may cause coma and death

4. First Aid Measures:

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured ensure airways are clear. If breathing has stopped apply artificial respiration at once. Seek medical assistance.

Contact with skin: Wash with soap & water. Remove contaminated clothing & wash before re-use. If irritation, swelling, redness or blistering occurs seek medical assistance

Contact with eyes: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance.

Ingestion: IF consciouses immediately rinse mouth with water & give water to drink. Do not induce vomiting. If vomiting occurs rinse mouth and administer more water. Keep patient warm.

5. Fire-fighting Measures:

Extinguishing Media: Alcohol resistant foam, carbon dioxide or dry chemical powder. Water may be ineffective. Water spray may be used to keep fire-exposed containers cool until fire is out.

Appropriate: wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Avoid: Contact with strong oxidizers may cause fire because product can ignite explosively

Special protective equipment for firefighters: Fire fighters to wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode and full protective clothing when fighting fire.

6. Accidental Release Measures:

Personal protection: Avoid skin and eye contact and inhalation of vapours. Wear overalls, eye protection & gloves. Respiratory protection is required if there is a risk of exposure to high vapour concentration

Environmental precautions: Eliminate all ignition sources. No smoking. Wear proper protective equipment.

Methods for cleaning up: Contain and absorb using sand, earth or other inert material. Stop spill at source if possible. Prevent from entering drains, sewers, streams or other bodies of water. Wash down area with water. If contamination of sewers or waterways has occurred advise the local emergency services. Transfer spilled material into clean labeled container for disposal

7. Handling and Storage:

Store away from sources of heat or ignition. Store in a cool place away form direct sunlight. Keep containers securely sealed and protected against physical damage. Earth and bond containers and vehicles to filling points when dispensing pouring or pumping as vapours may ignite due to static electricity.

8. Exposure Controls and Personal Protection:

Personal protection:
Personal Respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.
Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Environmental precautions: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

Airborne Exposure Limits:
OSHA Permissible Exposure Limit (PEL): 400 ppm (TWA)
ACGIH Threshold Limit Value (TLV): 400 ppm (TWA), A4 - Not classifiable as a human carcinogen.

9. Physical and Chemical Properties:

State: Liquid
Colour: Clear, colorless
Odour: sweet, fruity odour

Important health, safety and environmental information:
pH: Not available
Boiling Point: 77ºC
Flash Point: -4ºC
Flammability (solid/gas): flammable
Explosive properties: lel=2.0, uel=11.5
Vapour pressure: 73mm HG @ 20ºC
Relative density: 0.9006g/mL @ 20ºC
Solubility in water: Slightly Soluble
Viscoscity: 0.44 cps @ 25ºC
Vapour density: 3.04 (Air=1)
Evaporation rate: 6.2 (Butyl acetate=1)

10. Stability and Reactivity:

Stability: Stable under normal conditions of storage and use.
Conditions to avoid: Avoid high temperatures and ignition sources
Materials to avoid: Avoid Contact with nitrates, strong oxidizers, strong alkalis, or strong acids.
Hazardous decomposition products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

11. Toxicological Information:

Acute toxicity of preparation:
Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Skin contact: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
Eye contact: Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sensitization: Irritant to eyes, respiratory system and skin.
Long term toxicity: Danger of serious damage to health by prolonged exposure to solvent.
Chronic toxicity: Repeated and prolonged exposure to solvents may cause brain and nervous system.

Carcinogenicity: None listed
Epidemiology: No information available.
Teratogenicity: No information available.

LC_{50} (mouse-inh): Acute: LC50 = 45 gm/m3/2H [Mouse]
LD_{50} Acute: 5620 mg/kg [Rat]. 4100 mg/kg [Mouse]. 4935 mg/kg [Rabbit].

12. Ecological Information:

Ecotoxicity: Fish: Fathead Minnow: 230mg/L; 96H; Daphnid LC50=2500 mg/L/96H Golden orfe LC50=270 mg/L/48H
Mobility: No Data available
Persistance and degradability: Biodegradable.
Bioaccumulative potential: Will NOT bioaccumulate.

13. Disposal Considerations:

Consult local hazardous or chemical waste disposal agency for regulations.

14. Transport Information:

TDG (road):
- UN Number: UN1173
- Class: 3
- Proper shipping name: Ethyl Acetate
- Packing group: II

ICAO/IATA (air):
- UN Number : 1173
- Class: 3
- Proper shipping name: Ethyl Acetate
- Packing group: II

DOT:
- UN Number: UN1173
- Class: 3
- Proper shipping name: Ethyl Acetate

Packing group: II

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15. Regulatory Information:

CANADIAN REGULATIONS
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
WHMIS: B2, D2B
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All the components of this product are listed on the Canadian Domestic Substances List (DSL).

US FEDERAL

TSCA
CAS# 141-78-6 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
CAS# 141-78-6: 40 CFR 799.5000
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
CAS# 141-78-6: 5000 lb final RQ; 2270 kg final RQ
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 141-78-6: fire.
Section 313 No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.
STATE
CAS# 141-78-6 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

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16. Other Information:

N/A

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses or damages of any third party or for lost profits of any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

Date of Revision: Jan 5, 2012