

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Flotron® M-154

PRODUCT USE Paraffin Dispersant
Asphaltene Dispersant
Paraffin/Asphaltene Solvent

COMPANY MAILING ADDRESS Champion Technologies, Inc.
P.O. Box 450499
Houston, TX, 77245
USA

EMERGENCY TELEPHONE NUMBERS 24 HRS. 1-800-424-9300 (CHEMTREC)
1-703-527-3887 (CHEMTREC - International)
1-613-996-6666 (CANUTEC - Canada)
1-281-431-2561 (Champion)

2. COMPOSITION/INFORMATION ON INGREDIENTS

| SUBSTANCE | CAS-NO. | WEIGHT % |
|---------------------------------|-------------|-------------|
| Toluene | 108-88-3 | 60.0 - 80.0 |
| Light aliphatic solvent naphtha | 64742-89-8 | 10.0 - 30.0 |
| Alkylbenzene sulfonic acid | 68584-22-5 | 5.0 - 10.0 |
| Organic Acid | Proprietary | 1.0 - 5.0 |
| Sulfuric acid | 7664-93-9 | 0.1 - 1.0 |

3. HAZARDS IDENTIFICATION

| EMERGENCY OVERVIEW DANGER! | |
|-------------------------------|---|
| APPEARANCE & ODOR | Clear Brown, Liquid, Hydrocarbon |
| HEALTH HAZARDS | Corrosive |
| PHYSICAL HAZARDS | Flammable, Material may be ignited by heat, sparks or flames. |

HEALTH HAZARDS

| | |
|-----------------|--|
| SKIN | Causes burns. |
| EYE | Causes burns. |
| INHALATION | Causes burns. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Vapors may cause drowsiness and dizziness. |
| INGESTION | Causes burns. Harmful: may cause lung damage if swallowed. |
| CHRONIC EFFECTS | This product contains a component or components which may cause chronic effects. See Section 11 for details. |

POTENTIAL ENVIRONMENTAL EFFECTS Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

SKIN Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.

EYE Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

INHALATION Move to fresh air. Call a physician immediately. Give artificial respiration if not breathing. Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

INGESTION Call a physician immediately. Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting; contains petroleum distillates and/or aromatic solvents.

5. FIRE-FIGHTING MEASURES

FLASH POINT 25 °F (-4 °C) TCC

EXTINGUISHING MEDIA Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SPECIAL HAZARDS Vapors are heavier than air and may travel considerable distance along the ground or be moved by ventilation to ignition sources. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld or expose containers to flame or other sources of ignition.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS Wear positive-pressure self-contained breathing apparatus (SCBA) and full protective fire fighting gear. Equipment should be thoroughly decontaminated after use.

HAZARDOUS COMBUSTION PRODUCTS Combustion products may include carbon monoxide, carbon dioxide and nitrogen oxides.

FIRE FIGHTING / FURTHER ADVICE Evacuate area and fight fire from safe distance. Use water spray to cool fire exposed structures and to protect personnel. Shut off source of flow if possible. If a leak or spill has not ignited, use water spray to disperse the vapors.

6. ACCIDENTAL RELEASE MEASURES

CLEAN UP METHODS Eliminate all ignition sources. No flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Liquids may need to be neutralized before collection begins. Take up spill with sand or other noncombustible absorbent material and place in containers for later disposal. Always wear proper personal protective equipment when addressing spill or leak.

ENVIRONMENTAL PRECAUTIONS Prevent product from entering drains (waterways). Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

7. HANDLING AND STORAGE

GENERAL PRECAUTIONS Handle in accordance with good industrial hygiene and safety practices.

These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapor. Use only with adequate ventilation. Keep away from heat and sources of ignition. Take precautionary measures against static discharges.

STORAGE

Keep container closed when not in use. Store in cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

| NAME | SOURCE | TYPE | PPM | MG/M3 | NOTATION |
|---------------|--------|-----------|-----|-------|----------|
| Toluene | ACGIH | TWA | 20 | | |
| | NIOSH | REL | 100 | 375 | |
| | | STEL | 150 | 560 | |
| | OSHA | TWA | 200 | | |
| | | Ceiling | 300 | | |
| | | MAX. CONC | 500 | | |
| Sulfuric acid | ACGIH | TWA | | 0.2 | |
| | NIOSH | REL | | 1 | |
| | OSHA | PEL | | 1 | |

ENGINEERING MEASURES

Provide general and/or local exhaust ventilation, process enclosures or other engineering controls to control airborne levels below exposure guidelines.

RESPIRATORY PROTECTION

When respiratory protection is required, use an approved air purifying respirator or positive-pressure supplied-air respirator depending on potential airborne concentration.

HAND PROTECTION

Wear chemical-resistant gloves to prevent skin contact. Glove/protective clothing suppliers can provide recommendations for your specific applications. Wash immediately if skin is contaminated. Good personal hygiene practices such as properly handling contaminated clothing, using wash facilities before eating, drinking or smoking are essential for preventing personal chemical contamination. Contaminated gloves should be replaced.

EYE PROTECTION

Use chemical splash goggles, safety glasses and/or face shield. An emergency eye wash fountain should be located in immediate work area.

BODY PROTECTION

A safety shower should be located in the immediate work area. Remove contaminated clothing, wash skin with soap and water and launder clothing before reuse or dispose of properly.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------|---------------|
| FORM | Liquid |
| COLOR | Clear Brown |
| ODOR | Hydrocarbon |
| ODOR THRESHOLD | Not available |
| BOILING POINT | Not available |

| | | |
|--|-----------------|-----------------|
| POUR POINT | -40 °F (-40 °C) | |
| FLASH POINT | 25 °F (-4 °C) | TCC |
| LOWER EXPLOSION LIMIT | Not available | |
| UPPER EXPLOSION LIMIT | Not available | |
| AUTOIGNITION TEMPERATURE | Not available | |
| EVAPORATION RATE | Not available | |
| pH | 1.0 - 2.0 | |
| SOLUBILITY | Oil | |
| RELATIVE VAPOR DENSITY (AIR = 1) | Not available | |
| SPECIFIC GRAVITY (H2O = 1) | 0.8314 - 0.8714 | @ 60 °F (16 °C) |
| VAPOR PRESSURE | Not available | |
| VISCOSITY | 2 - 10 cPs | |
| PARTITION COEFFICIENT (N-OCTANOL/WATER) | Not available | |

10. STABILITY AND REACTIVITY

| | |
|---|-------------------------------|
| STABILITY | Stable |
| CONDITIONS TO AVOID | Open flames, Sparks |
| MATERIALS TO AVOID | Strong oxidizers and alkalies |
| HAZARDOUS DECOMPOSITION PRODUCTS | Oxides of carbon and sulfur |
| HAZARDOUS POLYMERIZATION | Will not occur |

11. TOXICOLOGICAL INFORMATION

| SUBSTANCE | SOURCE | GROUP | LIST ATTRIBUTE |
|------------------------|---------------|---------------|--|
| CARCINOGENICITY | | | |
| Toluene | ACGIH IARC | Group A4 3 | Not classifiable as a human carcinogen. Classification not possible from current data. |

TERATOGENICITY

The following component(s) may cause harm to the unborn child and/or be a possible risk of harm to the unborn child

Toluene

12. ECOLOGICAL INFORMATION

No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

ADVICE ON DISPOSAL Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Refer to the bill of lading or container label for DOT or other transportation hazard classification. Additionally, be aware that shipping descriptions may vary based on mode of transport, shipment volume or weight, container size or type, and/or origin and destination. Consult your company's Hazardous Materials / Dangerous Goods expert or your legal counsel for information specific to your situation.

15. REGULATORY INFORMATION**FEDERAL REGULATORY STATUS**

SARA HAZARD CATEGORY 1 - Acute, 2 - Chronic, 3 - Fire

CERCLA

| SUBSTANCE | REPORTABLE QUANTITY |
|------------------|----------------------------|
| Toluene | 1000 lbs |
| Sulfuric acid | 1000 lbs |

TSCA

This product contains a substance subject to TSCA Section 12(b) Export Notification Requirements. The exporter must submit a notice to the USEPA in accordance with 40 CFR Part 707.

STATE REGULATORY STATUS**CALIFORNIA PROPOSITION 65****KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.**

| | |
|--------------|---------|
| Ethylbenzene | 0.045% |
| Benzene | 0.0447% |

KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

| | |
|---------|---------|
| Toluene | 65.0% |
| Benzene | 0.0447% |

STATE RIGHT TO KNOW**NEW JERSEY RIGHT-TO-KNOW CHEMICAL LIST**

Ethylbenzene
Sulfur dioxide
Sulfuric acid
Toluene
Xylene
Benzene

MASSACHUSETTS RIGHT-TO-KNOW CHEMICAL LIST

Ethylbenzene
Sulfur dioxide
Sulfuric acid

Toluene
Xylene
Benzene

PENNSYLVANIA RIGHT-TO-KNOW CHEMICAL LIST

Ethylbenzene
Sulfur dioxide
Sulfuric acid
Toluene
Xylene
Benzene

INVENTORY STATUS**NOTIFICATION STATUS****TSCA**

Listed or Exempt

16. OTHER INFORMATION**NFPA RATING**

| | |
|------------------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 3 |
| INSTABILITY | 1 |
| SPECIAL HAZARDS | |

Prepared By: Product Stewardship
Preparation Date: 10/02/2007

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