Champion Technologies™

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IN - Saltzman

Material Safety Data Sheet

Flotron® M-136

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Flotron® M-136
Product use	Paraffin/Asphaltene Solvent
Manufacturer	Champion Technologies, Inc. P.O. Box 450499 Houston, TX, 77245 USA
Telephone	1-281-431-2561 (Champion)
In case of emergency	1-800-424-9300 (CHEMTREC) 1-703-527-3887 (CHEMTREC - International)

2. HAZARDS IDENTIFICATION

Physical state	liquid
Color	colorless.
Odor	Hydrocarbon.
Emergency overview	DANGER! Flammable. Harmful. Irritant. Keep away from heat, sparks and flame. Contains material which may cause cancer. See toxicological information (section 11)

Potential health effects

Inhalation	Harmful by inhalation.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.
Skin	Harmful in contact with skin. Irritating to skin.
Eyes	May cause eye irritation.
Chronic effects	Possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Medical conditions aggravated by over-exposure	Pre-existing skin disorders may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Weight %
Light aliphatic solvent naphtha	64742-89-8	30 - 60
Xylene	1330-20-7	30 - 60
Toluene	108-88-3	10 - 30
Ethylbenzene	100-41-4	5 - 10

4. FIRST AID MEASURES

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.

	Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Can enter lungs and cause damage. Do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Notes to physician	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

Flash point	25 °F (-3.9 °C), Tagliabue. Closed cup
Flammability of the product	Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Extinguishing media

Suitable	Use dry chemical, CO2, water spray (fog) or foam.
Not suitable	Do not use water jet.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous combustion products	carbon dioxide, carbon monoxide
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special remarks on fire hazards	Not available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	Avoid contact of spilled material with soil and prevent runoff entering surface waterways. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

Handling Use only with adequate ventilation. Put on appropriate personal protective equipment (see section 8). Wear appropriate respirator when ventilation is inadequate. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not enter storage areas and confined spaces unless adequately ventilated. Eliminate all ignition sources. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Workers should wash hands and face before eating, drinking and smoking.

Storage Store in accordance with local regulations. Store in a segregated and approved area. Keep container in a well-ventilated area. Store in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use. Separate from oxidizing materials. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection

Hands Use chemical-resistant, impervious gloves.

Eyes Safety eyewear should be used when there is a likelihood of exposure.

Body Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Occupational exposure limits

Component	Source	Type	PPM	MG/M3	Notes
Xylene					
	OSHA PEL	TWA	100 ppm	435 mg/m3	
	ACGIH TLV	TWA	100 ppm	434 mg/m3	
	ACGIH TLV	STEL	150 ppm	651 mg/m3	
Toluene					
	OSHA PEL Z2	TWA	200 ppm		
	OSHA PEL Z2	CEIL	300 ppm		
	OSHA PEL Z2	CEIL	500 ppm		
	NIOSH REL	TWA	100 ppm	375 mg/m3	
	NIOSH REL	STEL	150 ppm	560 mg/m3	
	ACGIH TLV	TWA	20 ppm		

Ethylbenzene

OSHA PEL	TWA	100 ppm	435 mg/m3
NIOSH REL	TWA	100 ppm	435 mg/m3
NIOSH REL	STEL	125 ppm	545 mg/m3
ACGIH TLV	TWA	100 ppm	
ACGIH TLV	STEL	125 ppm	

Engineering measures Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Emergency baths, showers, or other equipment appropriate for the potential level of exposure should be located close to the workstation location.

Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Color	colorless.
Odor	Hydrocarbon.
Odor threshold	Not available.
Boiling/condensation point	Not available.
Pour point	-40 °F (-40.0 °C)
Flash point	25 °F (-3.9 °C), Tagliabue. Closed cup
Flammable limits	Lower: Not available. Upper: Not available.
Auto-ignition temperature	Not available.
pH	6.0 - 8.0, Method (1 - 10% in deionized water)
Evaporation rate	Not available.
Solubility	oil
Vapor density	Not available.
Relative density	0.7950 - 0.8020 @ 60 °F (15.6 °C)
Vapor pressure	Not available.
Viscosity	Dynamic: 1 - 3 cPs @ 75 °F (23.9 °C)
Octanol/water partition coefficient (LogPow)	Not available.

Note: Typical values only - not to be interpreted as sales specifications

10. STABILITY AND REACTIVITY

Stability The product is stable.

Hazardous Under normal conditions of storage and use, hazardous polymerization will not occur.

polymerization

Conditions to avoid Avoid all possible sources of ignition (spark or flame).
Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Avoid exposure - obtain special instructions before use.
Avoid exposure during pregnancy.
Do not swallow.

Materials to avoid oxidizing materials

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Substance	Test type	Species	Dose
Light aliphatic solvent naphtha			
	LD50 Oral	Rat	1,440 mg/kg
	LD50 Dermal	Rabbit	3,480 mg/kg
Xylene			
	LD50 Oral	Mouse	2,119 mg/kg
	LD50 Oral	Rat	4,300 mg/kg
	LC50 Inhalation	Rat	5000 ppm
	LD50 Dermal	Rabbit	1,700 mg/kg
Toluene			
	LD50 Oral	Rat	636 mg/kg
	LC50 Inhalation	Rat	8000 ppm
	LC50 Inhalation	Mouse	30,000 mg/m3
	LD50 Dermal	Rabbit	14,100 mg/kg
Ethylbenzene			
	LD50 Oral	Rat	3,500 mg/kg
	LC50 Inhalation	Mouse	35,500 mg/m3
	LC50 Inhalation	Rat	55,000 mg/m3
	LD50 Dermal	Rabbit	3,500 mg/kg

Irritation/Corrosion

Not available.

Target organ effects Light aliphatic solvent naphtha: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity

Component	IARC	NTP	OSHA
Ethylbenzene	2B		

2B - IARC Group 2B, possibly carcinogenic to humans

12. ECOLOGICAL INFORMATION

Environmental effects No known significant effects or critical hazards.

Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

Waste disposal The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a

licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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

HCS Classification

Component	Classification
Ethylbenzene	Carcinogen, Harmful., Occupational exposure limits
Toluene	Harmful., Irritant., Target organ effects, Occupational exposure limits
Xylene	Harmful., Irritant., Occupational exposure limits
Light aliphatic solvent naphtha	Harmful.

U.S. Federal regulations

CERCLA: Hazardous substances - Reportable quantity:

Substance	Reportable quantity
Xylene	100 lbs
Toluene	1000 lbs
Ethylbenzene	1000 lbs

Product Reportable quantity	Substance
294 lb, 44 gal US	Xylene

Product spills equal to or exceeding the threshold above trigger the reporting requirements under CERCLA for the listed hazardous substance. Report the spill or release to the National Response Center (NRC) at (800) 424-8802.

SARA Title III Section 302 Extremely hazardous substances (40 CFR Part 355):
None of the components are listed.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
Immediate (acute) health hazard. Delayed (chronic) health hazard. Fire hazard.

SARA 313 - Supplier notification

Component	CAS no.	Weight %
Xylene	1330-20-7	30 - 60
Toluene	108-88-3	10 - 30
Ethylbenzene	100-41-4	5 - 10

Clean Water Act (CWA) 307:
The following components are listed: Toluene. Ethylbenzene. Benzene.

Clean Water Act (CWA) 311:
The following components are listed: Xylene. Toluene. Ethylbenzene. Benzene.

Clean Air Act (CAA) 112 accidental release prevention:
None of the components are listed.

Clean Air Act (CAA) 112 regulated flammable substances:
None of the components are listed.

Clean Air Act (CAA) 112 regulated toxic substances:
None of the components are listed.

State regulations

Massachusetts Substances: The following components are listed: Xylene. Toluene. Ethylbenzene.

New Jersey Hazardous Substances: The following components are listed: Ethylbenzene. Toluene. Xylene.

Pennsylvania RTK Hazardous Substances: The following components are listed: Ethylbenzene. Toluene. Xylene.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Component	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No.	Yes.	No.	13000 µg/day
	No.	Yes.	No.	7000 µg/day
Ethylbenzene	Yes.	No.	No.	No.
Benzene	Yes.	Yes.	6.4 µg/day	No.
	Yes.	Yes.	No.	24 µg/day
	Yes.	Yes.	No.	49 µg/day
	Yes.	Yes.	13 µg/day	No.

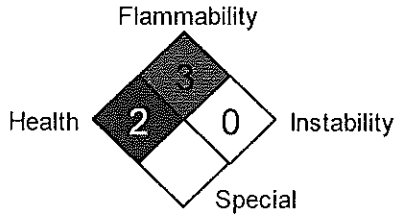
International regulations

United States inventory (TSCA 8b): All components are listed or exempted.

Canada inventory (DSL): All components are listed or exempted.

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.):



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