

Solutia Inc.

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: THERMINOL® FF

Reference Number: 000000000206

Date: 05/16/2009

Company Information:

United States:

Solutia Inc.
575 Maryville Center Drive, P.O. Box 66760
St. Louis, MO 63166-6760
Emergency telephone: Chemtrec: 1-800-424-9300
International Emergency telephone: Chemtrec: 703-527-3887
Non-Emergency telephone: 1-314-674-6661

Canada:

Solutia Canada Inc.
6800 St. Patrick Street
LaSalle, PQ H8N 2H3
Emergency telephone: CANUTEC: 1-613-996-6666
Non-Emergency telephone: 1-314-674-6661

Mexico:

Solutia MEXICO, S. DE R.L. DE C.V.
Prol. Paseo de la Reforma 2654
Local 501, Piso-5
Col. Lomas Altas
11950 Mexico, D.F.
Emergency telephone: SETIQ: (in Mexico) 01-800-002-1400
Non-Emergency telephone: (in Mexico) 01-55-5259-6800

Brazil:

Solutia Brazil Ltd.
Avenue Carlos Marcondes, 1200
CEP: 12241-420-São José dos Campos/SP-Brazil
Emergency telephone: 55 12 3932 7100 (PABX)
Non-Emergency telephone: 55 11 3365 1800 (PABX)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Form: liquid
Colour: amber to dark
Odour: aromatic, hydrocarbon

WARNING STATEMENTS

WARNING!

Causes skin irritation

Elevated processing temperatures may cause release of vapours which are irritating to eyes and upper respiratory tract

POTENTIAL HEALTH EFFECTS

Likely routes of exposure: eye and skin contact

	inhalation
Eye contact:	No more than slightly irritating to eyes. Elevated processing temperatures may cause release of vapours which are irritating.
Skin contact:	Highly irritating to skin. Not toxic if absorbed.
Inhalation:	Elevated processing temperatures may cause release of vapours which are irritating if inhaled. No more than slightly toxic if inhaled.
Ingestion:	No more than slightly toxic if swallowed. Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.
Signs and symptoms of overexposure:	headache dizziness/incoordination nausea/vomiting loss of consciousness vertigo confusion anxiety laboured breathing drowsiness

Refer to Section 11 for toxicological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS No.</u>	<u>Average concentration</u>	<u>Concentration range</u>	<u>Units</u>
benzene, ethylenated, by-products from	68608-82-2	100.0		%

4. FIRST AID MEASURES

If in eyes:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove any contact lenses. Get medical attention. Remove material from skin and clothing.
If on skin:	Immediately flush the area with plenty of water. Remove contaminated clothing. Get medical attention. Wash clothing before reuse.
If inhaled:	Remove patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Remove material from eyes, skin and clothing.
If swallowed:	Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

Wash heavily contaminated clothing before reuse.

5. FIRE FIGHTING MEASURES

Fire point:	>132 C	Cleveland Open Cup
Hazardous products of combustion:	carbon monoxide (CO); carbon dioxide; hydrocarbons; soot; smoke	
Extinguishing media:	Water spray, foam, dry chemical, or carbon dioxide	
Unusual fire and explosion hazards:	None known	
Fire fighting equipment:	Firefighters, and others exposed, wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.	
Miscellaneous advice:	This product is not classified as fire-resistant. Precautions to avoid sources of ignitions should be taken.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protection recommended in section 8.
Environmental precautions:	Keep out of drains and water courses.
Methods for cleaning up:	Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush spill area with water.

Refer to Section 13 for disposal information and Sections 14 and 15 for reportable quantity information.

7. HANDLING AND STORAGE

Handling

Avoid contact with eyes, skin and clothing.
Avoid breathing vapour or mist.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

Emptied containers retain vapour and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. Do not cut, drill, grind or weld on or near this container. The reuse of this material's container for non industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

Storage

General: Stable under normal conditions of handling and storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits: (ml/m³ = ppm)

THERMINOL® FF	Solutia: 2.0 mg/m ³ ; ; 8-hr TWA Solutia established exposure guideline.
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Eye protection:	Wear chemical goggles. Have eye flushing equipment available.
Hand protection:	Wear chemical resistant gloves. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application.
Body protection:	Wear suitable protective clothing. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application. Wear full protective clothing if exposed to splashes. Wash contaminated skin thoroughly after handling. Launder contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling. Have safety shower available at locations where skin contact can occur.
Respiratory protection:	Avoid breathing vapour or mist. Use approved respiratory protection equipment when airborne exposure is excessive. If used, full facepiece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
Ventilation:	Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as processing equipment.

Components referred to herein may be regulated by specific Canadian provincial legislation. Please refer to exposure limits legislated for the province in which the substance will be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point:	> 121 C	Cleveland Open Cup
Specific gravity:	0.96 - 0.98 @ 25 C	
Density:	960 - 990 kg/m3 @ 25 C	
Boiling range :	216 - 288 C	
Water solubility:	0.0026 g/l @ 25 C	
Kinematic viscosity:	2 - 5 mm2/s @ 38 C 3 - 6 mm2/s @ 25 C	

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Conditions to avoid:	All sources of ignition.
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Materials to avoid: None known

Hazardous reactions: Hazardous polymerization does not occur.

Hazardous decomposition products: hydrocarbons;

11. TOXICOLOGICAL INFORMATION

This product has not been tested for toxicity, but data obtained on similar products are summarized below:

Acute animal toxicity data

Oral: LD50 , rat, > 5,000 mg/kg , Practically nontoxic following oral administration.

Dermal: LD50 , rat, > 5,000 mg/kg , Practically nontoxic after skin application in animal studies.

Eye irritation: rabbit , Slightly irritating to eyes (rabbit)., 24 h

Skin irritation: rabbit , Severely irritating, 24 h
rabbit , Moderately irritating to skin., 4 h

Repeat dose toxicity: rat, , inhalation, 13 weeks, , Produced effects on body weight, serum enzymes and/or organ weights in repeat dose studies. Effects only observed at very high dose levels.

Target organs affected body weight, liver, kidneys

Developmental toxicity: rat, inhalation, , Produced birth defects in animals., Effects on offspring only observed with maternal toxicity. Effects only observed at very high dose levels.

Mutagenicity: No genetic effects were observed in standard tests using bacterial and animal cells.

12. ECOLOGICAL INFORMATION

This product has not been tested for environmental toxicity, but data obtained on similar products are summarized below:

Environmental Toxicity

Invertebrates 48 h, EC50 Water flea (Daphnia magna) 0.77 mg/l
Result for structurally similar chemical.

Fish: 96 h, LC50 Rainbow trout (Oncorhynchus mykiss) > 0.97 mg/l
Result for structurally similar chemical.
96 h, LC50 Fathead minnow (Pimephales promelas) > 16 mg/l
Result for structurally similar chemical.

Algae: 96 h, EC50 Algae (Selenastrum capricornutum) 0.67 mg/l
Result for structurally similar chemical.

Environmental fate

13. DISPOSAL CONSIDERATIONS

Miscellaneous advice: Local, state, provincial, and national disposal regulations may be more or less stringent. Consult your attorney or appropriate regulatory officials for information on such disposal.
This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

14. TRANSPORT INFORMATION

Other: Not regulated for transport.

15. REGULATORY INFORMATION

Not applicable

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

Safety data sheet also created in accordance with Brazilian law NBR 14725

16. OTHER INFORMATION

Product use: Cleaning Agent

Reason for revision: Routine review and update

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	2	1	0	
Suggested HMIS Rating:	2	1	0	G

Prepared by the Solutia Hazard Communication Group. Please consult Solutia @ 314-674-6661 if further information is needed.

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