

Solutia Inc.

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SKYKLEEN® 1000 Aviation solvent

Reference Number: 00000000184

Date: 07/07/2008

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 3146 1800 (PABX)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Form: liquid
Colour: colourless
Odour: sweet odour

WARNING STATEMENTS

CAUTION!
May cause eye irritation
May cause respiratory tract irritation
May cause blurred vision.

POTENTIAL HEALTH EFFECTS

Likely routes of exposure: eye and skin contact
inhalation

Eye contact: Moderately irritating to eyes.

Skin contact: No more than slightly irritating to skin.
No more than slightly toxic if absorbed.

Inhalation: Moderately 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.

Target organs/systems: May cause blurred vision.

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>
dimethyl glutarate	1119-40-0		>55.0 - <75.0	%
dimethyl succinate	106-65-0		>15.0 - <35.0	%
dimethyl adipate	627-93-0		>5.0 - <25.0	%

4. FIRST AID MEASURES

If in eyes: Immediately flush with plenty of water.
If easy to do, remove any contact lenses.
Remove material from skin and clothing.
Get medical attention if irritation persists.

If on skin: Immediate first aid is not likely to be required.
This material can be removed with water.
Wash heavily contaminated 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

Hazardous products of combustion: carbon monoxide (CO); carbon dioxide; smoke; soot

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.

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.

Use with adequate ventilation.

Keep container closed.

Wash thoroughly after handling.

Emptied containers retain vapour and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. 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)

SKYKLEEN® 1000 Solutia: 1.5 ml/m³ ; 10 mg/m³ ; ; 8-hr TWA
Solutia established exposure guideline.

Eye protection: Wear chemical goggles.
Have eye flushing equipment available.

Hand protection: Wear chemical resistant gloves.
See Solutia Glove Facts for permeation data.
Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application.

Body protection: Wear suitable protective clothing.
Wear full protective clothing if exposed to splashes.
Consult the glove/clothing manufacturer to determine the appropriate type

glove/clothing for a given application.
Wash contaminated skin promptly.
Launder contaminated clothing and clean protective equipment before reuse.
Wash thoroughly after handling.

Respiratory protection: Avoid breathing vapour or mist.
Use approved respiratory protection equipment (full facepiece recommended) when airborne exposure limits are exceeded.
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:	102 C	Tag closed tester
Specific gravity:	1.086 @ 20 C	
Boiling range :	196 - 226 C	
Freezing point :	-40 C	
Vapour pressure:	0.06 mmHg @ 20 C	
Water solubility:	55 g/l @ 20 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:	Elevated temperatures
Materials to avoid:	Contact with acids. Contact with alkalis. Contact with oxidizing agents.
Hazardous reactions:	Hazardous polymerization does not occur.
Hazardous decomposition products:	None known;

11. TOXICOLOGICAL INFORMATION

Human experience: This material can produce temporary blurred vision following exposure to high vapour concentrations or direct contact with eyes. The effects reported are of limited duration and do not appear to cause permanent visual impediment.
Effects not observed at concentrations below the recommended exposure limits.

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

Acute animal toxicity data

Oral: LD50 , rat, > 500 mg/kg , Slightly toxic following oral administration. No mortality observed at listed concentration.

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

Inhalation: LC50 , rat, > 10.7 mg/l , 1 h,

Eye irritation: rabbit , Moderately irritating,

Skin irritation: rabbit , Practically non irritating to skin (rabbit),. 4 h

Skin sensitization: guinea pig , This material did not produce skin sensitization in laboratory animals.

Repeat dose toxicity: rat, 1,000 mg/kg, gavage, 28 days, , No adverse treatment related effects.

Repeat dose toxicity: rat, , inhalation, 90 day, , Produced effects on body weight, serum enzymes and/or organ weights in repeat dose studies. Repeated inhalation exposure produces nasal tissue damage. Minor changes in male fertility parameters, i.e. hormone measurements, sperm number or reproductive organ weights, observed in the absence of a change in reproductive performance. Rodents are more susceptible to reported effect than humans.

Target organs affected nose

Developmental toxicity: rat, inhalation, , No effects on offspring observed in laboratory animals in the presence of maternal toxicity.

Reproductive toxicity: rat, inhalation, 1 generation, Signs of generalized toxicity (reduced body weight and/or reduced weight gain) were observed in parental animals and offspring with no effect on fertility or reproduction.

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

Components

Data from Solutia studies and/or the available scientific literature on the components of this material which have been identified as hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Hazardous Products Act are discussed below if present.

dimethyl glutarate Practically nontoxic following oral administration.

	Practically nontoxic after skin application in animal studies. Moderately irritating to eyes (rabbit). Practically non irritating to skin (rabbit).
dimethyl succinate	Slightly toxic following oral administration. Practically nontoxic after skin application in animal studies. Moderately irritating to eyes (rabbit). Practically non irritating to skin (rabbit).
dimethyl adipate	Practically nontoxic following oral administration. Practically nontoxic after skin application in animal studies. Practically non irritating to skin (rabbit). Moderately irritating to eyes (rabbit).

12. ECOLOGICAL INFORMATION

Environmental Toxicity

Invertebrates	48 h, EC50	Water flea (Daphnia magna)	136 mg/l
Fish:	96 h, LC50	Fathead minnow (Pimephales promelas)	> 18 mg/l

Environmental fate

Biodegradation	Modified SCAS (OECD 303A) Readily biodegradable. Closed Bottle BOD30/COD 86 % Readily biodegradable.
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13. DISPOSAL CONSIDERATIONS

US EPA RCRA Status:	This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261.
Disposal considerations:	Incineration Recycle
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

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

US DOT

Other: Not regulated for transport.

Canadian TDG

Other: Not regulated for transport.

ICAO/IATA Class

Other: Not regulated for transport.

15. REGULATORY INFORMATION

All components are in compliance with the following inventories: U.S. TSCA, EU EINECS, Canadian DSL, Australian AICS, Japanese ENCS, Korean, Phillipine PICCS, Chinese

Canadian WHMIS classification: D2(B) - Materials Causing Other Toxic Effects

SARA Hazard Notification:

Hazard Categories Under Title III Rules (40 CFR 370):	Immediate
Section 302 Extremely Hazardous Substances:	Not applicable
Section 313 Toxic Chemical(s):	Not applicable

CERCLA Reportable Quantity:

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: Aviation solvent

Reason for revision: Routine review and update

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

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

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Product name: SKYKLEEN® 1000 Aviation solvent
Solutia Inc. Material Safety Data Sheet
Reference Number: 00000000184

Page 8 / 8
Date: 07/07/2008
Version 6./EN

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