

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**EASTMAN**

## Skykleen® 1000 Aviation Solvent

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2015
6.5	24.04.2019	150000093411	Date of first issue: 18.09.2013
PRD		SDSEU / EN / 0001	

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Skykleen® 1000 Aviation Solvent

Product code : 34104-00, P3410404, P3410402, P3410401

EC-No. : 906-170-0

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-  
stance/Mixture : Solvent

Recommended restrictions : None known.  
on use

#### 1.3 Details of the supplier of the safety data sheet

Company : Eastman Chemical Company  
200 South Wilcox Drive  
37660-5280 Kingsport

Telephone : +14232292000

E-mail address of person  
responsible for the SDS : Visit our website at [www.EASTMAN.com](http://www.EASTMAN.com) or email  
[emnmsds@eastman.com](mailto:emnmsds@eastman.com)

#### 1.4 Emergency telephone

NCEC +44 (0)1235 239 670

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### 2.2 Label elements

**Labeling (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
None known.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Dimethyl glutarate	1119-40-0 214-277-2		55 - 75
Dimethyl succinate	106-65-0 203-419-9		15 - 35
Dimethyl adipate	627-93-0 211-020-6		5 - 25

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- If inhaled : Remove person to fresh air and keep comfortable for breathing.  
If breathing is difficult, give oxygen.  
Consult a physician if necessary.
- In case of skin contact : Wash off with soap and water.  
Get medical attention if symptoms occur.  
Wash contaminated clothing before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
Get medical attention if symptoms occur.
- If swallowed : Rinse mouth.  
Never give anything by mouth to an unconscious person.  
Do NOT induce vomiting.  
Call a physician or poison control center immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : 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.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Thermal decomposition can lead to release of irritating gases and vapours.

Hazardous combustion products : Carbon oxides

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : In case of fire and/or explosion do not breathe fumes.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear appropriate personal protective equipment.  
Do not get in eyes.  
Do not breathe vapors or spray mist.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Local authorities should be advised if significant spillages cannot be contained.

#### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Clear up spills immediately and dispose of waste safely.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Clean contaminated surface thoroughly.

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### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Wear personal protective equipment.  
Do not get in eyes.  
Do not breathe vapors or spray mist.  
Ensure adequate ventilation.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep containers tightly closed in a cool, well-ventilated place.  
areas and containers

### 7.3 Specific end use(s)

Specific use(s) : [www.EastmanAviationSolutions.com](http://www.EastmanAviationSolutions.com)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Engineering measures

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Personal protective equipment

Eye protection : Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.  
Safety glasses with side-shields  
Safety goggles

Hand protection  
Remarks : Wear suitable gloves. When handling hot material, use heat resistant gloves.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Color	:	colourless
Odor	:	sweet
Odor Threshold	:	not determined
pH	:	not determined
Melting point/freezing point	:	-40 °C
Boiling point/boiling range	:	200 - 220 °C
Flash point	:	102 °C Method: Tag closed cup
Evaporation rate	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	0,08 hPa (20 °C)
Relative vapor density	:	not determined
Relative density	:	1,086 (20 °C)
Solubility(ies) Water solubility	:	55 g/l (20 °C)
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	not determined
Decomposition temperature	:	not determined
Viscosity Viscosity, dynamic	:	3,88 mPa.s (25 °C)
Viscosity, kinematic	:	not determined
Explosive properties	:	Not classified
Oxidizing properties	:	Not classified

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### 9.2 Other information

Self-ignition : 438 °C

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None reasonably foreseeable.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents  
Strong acids  
Strong bases

### 10.6 Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 10,7 mg/l  
Exposure time: 1 h  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

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### **Skin corrosion/irritation**

Not classified based on available information.

#### **Product:**

Species	:	Rabbit
Exposure time	:	4 h
Result	:	slight

### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Product:**

Species	:	Rabbit
Result	:	slight

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### **Product:**

Test Type	:	Skin Sensitization
Result	:	Not a skin sensitizer.

### **Germ cell mutagenicity**

Not classified based on available information.

#### **Product:**

Genotoxicity in vitro	:	Test Type: Mutagenicity Result: Based on available data, the classification criteria are not met.
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Genotoxicity in vivo	:	Test Type: Mutagenicity Result: Based on available data, the classification criteria are not met.
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### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT-single exposure**

Not classified based on available information.

### **STOT-repeated exposure**

Not classified based on available information.

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### Aspiration toxicity

Not classified based on available information.

### Information on likely routes of exposure

#### Product:

Inhalation	:	Remarks: None known.
Skin contact	:	Remarks: None known.
Eye contact	:	Remarks: 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.
Ingestion	:	Remarks: None known.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 18 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 136 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 : Remarks: Not expected to be harmful to aquatic organisms. Read-across from a similar material

### 12.2 Persistence and degradability

#### Product:

Biodegradability	:	Result: Readily biodegradable.
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### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
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### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of
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0.1% or higher..

### 12.6 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

### The ingredients of this product are reported in the following inventories:

DSL	:	On the inventory, or in compliance with the inventory
AICS	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TSCA	:	On the inventory, or in compliance with the inventory

### 15.2 Chemical Safety Assessment

Please "unchoose" this phrase if selected.

## SECTION 16: Other information

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to : [www.EastmanAviationSolutions.com](http://www.EastmanAviationSolutions.com)  
compile the Material Safety  
Data Sheet

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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