

Material Safety Data Sheet**Material:** 70702006 **AK 100**
SILICONE FLUID

Version: 1.13 (US) Date of print: 02/18/2008 Date of last alteration: 03/15/2006

1 Product and company identification**1.1 Identification of the substance or preparation:**

Commercial product name: AK 100
SILICONE FLUID

Use of substance / preparation: Industrial.
Raw material for: elastomer products , cosmetics ,
lubricants , textile .

1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker Chemical Corporation
3301 Sutton Road
Adrian, MI 49221-9397
USA

Customer information: InfoLine:
Tel (517) 264-8240, Fax (517) 264-8740
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.wackersilicones.com

Emergency telephone no. (24h): (517) 264-8500
Transportation emergency: (800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)

This MSDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

2 Composition/information on ingredients**2.1 Chemical characterization (substance):****Chemical characteristics**

Polydimethylsiloxane

2.2 Information on ingredients:

| Type | CAS No. | Substance | Content [wt. %] | | Note |
|------|------------|-----------------------|-----------------|-------|------|
| | | | Lower | Upper | |
| INHA | 63148-62-9 | Polydimethyl siloxane | 100.0 | 100.0 | NH |

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

This material does not contain any OSHA or WHMIS reportable hazardous ingredients.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

3 Hazards identification**3.1 Hazards classifications****HMIS® rating (product as packaged):**

Health: 1 Fire: 1 Reactivity: 0 PPE: B

(HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.) Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association.

Canadian WHMIS Classification: None.

Material Safety Data Sheet**Material:** 70702006 **AK 100**
SILICONE FLUID

Version: 1.13 (US) Date of print: 02/18/2008 Date of last alteration: 03/15/2006

5 Fire-fighting measures

- 5.1 Flammable properties:**
- | | Method |
|---|---------------|
| Flash point.....: > 279 °C (> 534 °F) | (DIN 51376) |
| Flash point.....: > 238 - 263 °C (460 - 505 °F) | (ASTM D93) |
| Boiling point / boiling range.....: > 200 °C (> 392 °F) | |
| Lower explosion limit (LEL).....: not determined | |
| Upper explosion limit (UEL).....: not determined | |
| Ignition temperature: not determined | |
| NFPA Hazard Class (comb./flam.liquid): IIIB | |
- 5.2 Fire and explosion hazards:**
This material does not present any unusual fire or explosion hazards.
- 5.3 Recommended extinguishing media:**
water-mist , carbon dioxide , sand , dry chemical or alcohol-resistant foam .
- 5.4 Unsuitable extinguishing media:**
water-spray , sharp water jet .
- 5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:**
Hazardous decomposition products: carbon dioxide , carbon monoxide , formaldehyde , silicon dioxide and incompletely burnt hydrocarbons .
- 5.6 Fire fighting procedures:**
Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

6 Accidental release measures

- 6.1 Precautions:**
If material is released indicate risk of slipping. Do not walk through spilled material.
HAZWOPER PPE Level: D
- 6.2 Containment:**
Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Close leak if possible without risk. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.
- 6.3 Methods for cleaning up:**
Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

7 Handling and storage

- 7.1 Handling**
Precautions for safe handling:
Spilled substance increases risk of slipping.
Precautions against fire and explosion:
Observe the general rules for fire prevention.
- 7.2 Storage**
Conditions for storage rooms and vessels:
none known
Advice for storage of incompatible materials:
not applicable
Further information for storage:
Keep container tightly closed. Store in a dry and cool place.

Material Safety Data Sheet**Material:** 70702006 **AK 100**
SILICONE FLUID

Version: 1.13 (US) Date of print: 02/18/2008 Date of last alteration: 03/15/2006

10 Stability and reactivity**10.0 General information:**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.1 Conditions to avoid:

none known

10.2 Materials to avoid:

none known

10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

10.4 Further information:

Hazardous polymerization cannot occur.

11 Toxicological information**11.1 General information:**

Toxicological testing has been conducted with similar product(s).

11.2 Toxicological data:**Acute toxicity (LD50/LC50-values relevant to classification):**

| Exposition | Value/value range | Species | Source |
|------------|-------------------|------------------|-------------|
| oral | > 5000 mg/kg | rat | literature |
| dermal | > 2008 mg/kg | rat (Limit Test) | test report |

Primary irritation:

| Exposition | Effect | Species/Testsystem | Source |
|------------|-------------------|--------------------|-------------|
| to skin | not irritating | rabbit | test report |
| to eyes | mildly irritating | rabbit | test report |

Sensitization:

| Exposition | Effect | Test method | Species | Source |
|------------|-----------------|--------------------|------------|-------------|
| to skin | not sensitizing | Magnusson-Kligmann | guinea-pig | test report |

Reference points for mutagenic (carcinogenic) potential:

| Test system | Effect | Source |
|---------------------------------|---------------|-------------|
| Bacterial Reverse Mutation Test | not mutagenic | test report |

Experience with man:

Human patch test: Product displays good compatibility with the skin.

12 Ecological information**12.1 Information on elimination (persistence and degradability)****Biodegradation / further information:**

Biologically not degradable. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

Further information:

Elimination by adsorption to activated sludge.

12.2 Behaviour in environmental compartments**Mobility**

Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

Further information:

Bioaccumulation is not expected to occur.

Material Safety Data Sheet**Material:** 70702006 **AK 100**
SILICONE FLUID

Version: 1.13 (US) Date of print: 02/18/2008 Date of last alteration: 03/15/2006

12.3 Ecotoxicological effects:

No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

12.4 Additional information**Other harmful effects**

-

General information:

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

13 Disposal considerations**13.1 Product disposal****Recommendation:**

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

13.2 Packaging disposal**Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14 Transport information**14.1 US DOT & CANADA TDG SURFACE**Valuation.....: Not regulated for transport
Corrosive to Steel or Aluminum: Not corrosive to steel or aluminum.**14.2 Transport by sea IMDG-Code**

Valuation.....: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

15 Regulatory information**15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

This product does not present any SARA 311/312 hazards.

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

This material does not contain any hazardous air pollutants.

Material Safety Data Sheet**Material:** 70702006 **AK 100**
SILICONE FLUID

Version: 1.13 (US) Date of print: 02/18/2008 Date of last alteration: 03/15/2006

15.2 U.S. State regulations**California Proposition 65 Carcinogens:**

This material does not contain any chemicals known to the state of California to cause cancer.

California Proposition 65 Reproductive Toxins:

This material does not contain any chemicals known to the state of California to cause reproductive effects.

Massachusetts Substance List:

This material contains no listed components.

New Jersey Right-to-Know Hazardous Substance List:

This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no listed components.

15.3 Canadian regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Hazard Classes:

None.

DSL Status:

This material or its components are listed on the Canadian Domestic Substances List.

Non-DSL Chemicals:

This material does not contain any non-DSL chemicals.

Canadian Ingredient Disclosure List:

This material contains no listed components.

15.4 Other international regulations**EU Risk Phrases:**

| R-Phrase | Description |
|----------|-------------|
| R- | - |

EU Safety Phrases:

| S-Phrase | Description |
|----------|-------------|
| S- | - |

Details of international registration status

Listed on the following inventories:

ENCS - Japan
AICS - Australia
EINECS - Europe
ECL - Korea
PICCS - Philippines
DSL - Canada
TSCA - USA
IECSC - China**16 Other information****16.1 Additional information:**

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as

Material Safety Data Sheet

Material: 70702006

AK 100
SILICONE FLUID

Version: 1.13 (US)

Date of print: 02/18/2008

Date of last alteration: 03/15/2006

of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16.2 Glossary of Terms:ACGIH - American Conference of Governmental
Industrial Hygienists

DOT - Department of Transportation

hPa - Hectopascals

mPa*s - Milli Pascal-Seconds

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

ppm - Parts per Million

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

WHMIS - Canadian Workplace Hazardous Materials

Identification System

Flash point determination methods

ASTM D56

ASTM D92, DIN 51376, ISO 2592

ASTM D93, DIN 51758, ISO 2719

ASTM D3278, DIN 55680, ISO 3679

DIN 51755

Common name

Tagliabue (Tag) closed cup

Cleveland open cup

Pensky-Martens closed cup

Setaflash or Rapid closed cup

Abel-Pensky closed cup

16.3 Conversion table:

Pressure: 1 hPa * 0.75 = 1 mm Hg = 1 Torr; 1 bar = 1000 hPa

Viscosity: 1 mPa*s = 1 Centipoise (Cp)