

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

**Commercial product name:** AK350  
SILICONE FLUID

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

Industrial.

Use of substance / preparation:  
Intermediate chemical

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

Distributor: Chemical Store Inc.  
Street/POB-No.: 1059 Main Avenue  
State/postal code/city: Clifton, NJ 07011, USA  
Telephone: +1 (973) 405-6248  
Fax: +1 (973) 272-1073  
eMail: info@ChemicalStore.com

**1.4 Emergency telephone number (24h): +1 (973) 420-4972****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

NON-HAZARDOUS SUBSTANCE (according to the criteria of NOHSC). NON-DANGEROUS GOOD (according to the ADG Code).

**Classification (67/548/EEC, 1999/45/EC):**

R-Phrase	Description
R-	-

**2.2 Label elements****Labelling (67/548/EEC, 1999/45/EC):**

R-Phrase	Description
R-	-

S-Phrase	Description
S-	-

**2.3 Other hazards**

No data are available.

**SECTION 3: Composition/information on ingredients****3.1 Substances****3.1.1 Chemical characterization (substance)**

Polydimethylsiloxane

**3.2 Mixtures**

not applicable

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

**After inhalation:**

Provide fresh air.

**After contact with the skin:**

Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

**After contact with the eyes:**

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

**After swallowing:**

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Give several small portions of water to drink. Do not induce vomiting.

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

Any relevant information can be found in other parts of this section.

**4.3 Advice for the doctor:**

No data are available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media:**

water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .

**Extinguishing media which must not be used for safety reasons:**

water spray , water jet .

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

not applicable

**5.3 Advice for firefighters****Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

If material is released indicate risk of slipping. Do not walk through spilled material.

**6.2 Environmental precautions**

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.

**6.3 Methods and material for containment and 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.

**6.4 Reference to other sections**

Relevant information in other sections have to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****General information:**

No special protective measures required.

**Precautions for safe handling:**

Spilled substance increases risk of slipping. Liquid silicone based materials have lubricating properties that can substantially reduce or eliminate traction and may pose a slip hazard. Please use warning labels on consumer products where traction is essential for safety.

**Precautions against fire and explosion:**

Observe the general rules for fire prevention.

**7.2 Conditions for safe storage, including any incompatibilities****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.

**Maximum temperature allowed during storage and transportation:** 50 °C

**7.3 Specific end use(s)**

No data are available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Maximum airborne concentrations at the workplace:**

CAS No.	Material	Type	mg/m <sup>3</sup>	ppm	Dust fract.	Fibre/m <sup>3</sup>
	Aerosol - respirable fraction	AGW	10.0			

The aerosol limit specified is a recommendation should aerosol be formed during processing.

**8.2 Exposure controls**

**8.2.1 Exposure in the work place limited and controlled**

**General protection and hygiene measures:**

Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink when handling.

**Personal protection equipment:**

**Respiratory protection**

not required .

**Hand protection**

Recommendation: Protective gloves made of butyl rubber , nitrile rubber protective gloves .

**Eye protection**

Recommendation: protective goggles .

**8.2.2 Exposure to the environment limited and controlled**

Prevent material from entering surface waters and soil.

**SECTION 9: Physical and chemical properties**

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

**General information:**

Physical state / form.....: liquid  
 Colour .....: colourless  
 Odour .....: odourless

**Important information about the protection of health, safety and the environment:**

<b>Property:</b>	<b>Value:</b>	<b>Method:</b>
Melting point / melting range .....	-50 - -35 °C	
Boiling point / boiling range .....	not determined	
Flash point.....	> 300 °C	(ISO 2592)
Flash point.....	344 °C	(JIS K2265-4)
Ignition temperature .....	approx. 450 °C	(DIN 51794)
Lower explosion limit (LEL) .....	not applicable	
Upper explosion limit (UEL).....	not applicable	
Vapour pressure.....	not applicable	
Density .....	approx. 0.97 g/cm <sup>3</sup> at 25 °C	(DIN 51757)
Water solubility / miscibility.....	virtually insoluble at 20 °C	
pH-Value .....	approx. 7	
Viscosity (dynamic) .....	324 - 356 mPa.s at 25 °C	(DIN53019)
Viscosity (kinematic) .....	approx. 350 mm <sup>2</sup> /s at 25 °C	(DIN53019)

**9.2 Other information**

Thermal decomposition.....: Decomposition begins at > 250 °C

**SECTION 10: Stability and reactivity**

**10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions**

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

Relevant information can possibly be found in other parts of this section.

**10.4 Conditions to avoid**

none known

**10.5 Incompatible materials**

none known

**10.6 Hazardous decomposition products**

If stored and handled properly: none known . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**11.1.1 Acute toxicity**

**Assessment:**

Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure.

**Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD <sub>50</sub> : > 5000 mg/kg	rat	Conclusion by analogy
dermal	LD <sub>50</sub> : > 2008 mg/kg	rat	Conclusion by analogy

**11.1.2 Skin corrosion/irritation**

**Assessment:**

Based on the available data a clinically relevant skin irritation hazard is not expected.

**Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

**11.1.3 Serious eye damage / eye irritation**

**Assessment:**

Based on the available data a clinically relevant eye irritation hazard is not expected.

**Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

**11.1.4 Respiratory or skin sensitization**

**Assessment:**

Based on the available data a sensitization reaction is not expected from this product.

**Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnusson-Kligmann	Conclusion by analogy OECD 406

**11.1.5 Germ cell mutagenicity**

**Assessment:**

Based on known data a significant mutagenic potential may be excluded.

**Product details:**

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	Conclusion by analogy OECD 471

**11.1.6 Carcinogenicity**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.7 Reproductive toxicity**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.8 Specific target organ toxicity (single exposure)****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.9 Specific target organ toxicity (repeated exposure)****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.10 Aspiration hazard****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.11 Further toxicological information**

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

**SECTION 12: Ecological information****12.1 Toxicity****Assessment:**

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

**12.2 Persistence and degradability****Assessment:**

Biologically not degradable. Absorbed by floating particles. Separation by sedimentation. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

**12.3 Bioaccumulative potential****Assessment:**

Bioaccumulation is not expected to occur.

**12.4 Mobility in soil****Assessment:**

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

**12.5 Other adverse effects**

none known

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****13.1.1 Material****Recommendation:**

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

**13.1.2 Uncleaned packaging****Recommendation:**

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

**SECTION 14: Transport information****14.1–14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group****Land transport ADG Code (road and rail)::**

Valuation .....: Not regulated for transport

**Transport by sea IMDG-Code:**

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Valuation .....: Not regulated for transport

**Air transport ICAO-TI/IATA-DGR:**

Valuation .....: Not regulated for transport

**14.5 Environmental hazards**

Hazardous to the environment: no

**14.6 Special precautions for user**

Relevant information in other sections have to be considered.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Bulk transport in tankers is not intended.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

**15.1.1 Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) Australia:**

Poisons Schedule number:

No Poisons Schedule number allocated.

**15.2 Other international regulations****Details of international registration status:**

Listed on or in accordance with the following inventories:

EINECS - Europe

ECL - Korea

ENCS - Japan

AICS - Australia

IECSC - China

DSL - Canada

PICCS - Philippines

TSCA - USA

**SECTION 16: Other information****16.1 Material**

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

**16.2 Further information:**

Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

**16.3 Glossary of Terms:**

CAS No. - Chemical Abstracts Service Registry Number

UN No. - United Nations Dangerous Goods Number

ADG Code - Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road &amp; Rail

IMDG Code - International Maritime Dangerous Goods Code

IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations

NOHSC - Australian National Occupational Health and Safety Commission (Note: NOHSC documents are now published by the ASCC)

ASCC - Australian Safety &amp; Compensation Council

OEL - Occupational exposure limit in Great Britain

AGW - Occupational exposure limit in Germany

ES\_AU - Occupational exposure limit in Australia

**- End of Safety Data Sheet -**