

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** TEGO® Airex 931

**Chemical name:**  
Flurosilicone Solution

**Other means of identification**

**Recommended restrictions**

**Recommended use:** Industrial Use  
**Restrictions on use:** None known.

**Manufacturer/Importer/Distributor Information**

Company Name : Evonik Corporation  
Nutrition & Care  
PO Box 34628  
Richmond, VA 23234  
USA

Telephone : +1 804 727 0700

Fax : +1 804 727 0845

E-mail : product-regulatory-services@evonik.com

**Emergency telephone number:**

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)  
Emergency : 800 681 9531 (CHEMTREC MEXICO)  
+1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Flammable liquids Category 3

**Health Hazards**

Specific Target Organ Toxicity - Single Exposure Category 3<sup>1</sup>.

**Target Organs**

1. Respiratory system

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Warning

**Hazard Statement:** Flammable liquid and vapor.  
May cause respiratory irritation.

**Precautionary Statements**

**Prevention:** Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.

**Response:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents/ container to an approved waste disposal plant.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

**Chemical name:**  
Flurosilicone Solution

**Mixtures**

Chemical Identity	CAS number	Content in percent (%) <sup>*</sup>
4-Heptanone, 2,6-dimethyl-	108-83-8	>85%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

### 4. First-aid measures

**Description of necessary first-aid measures**

**General information:** Remove soiled or soaked clothing immediately

**Inhalation:** Remove individual from site of exposure and place in fresh air. Observe breathing. Seek medical advice.

<b>Skin Contact:</b>	Remove contaminated clothing immediately. Wash off with soap and water. If irritation persists, consult a physician and show this data sheet.
<b>Eye contact:</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
<b>Personal Protection for First-aid Responders:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

#### Most important symptoms/effects, acute and delayed

<b>Symptoms:</b>	No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.
<b>Hazards:</b>	No data available.

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

<b>Treatment:</b>	Treat symptomatically.
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### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media:</b>	foam, carbon dioxide, dry powder, water spray.
<b>Unsuitable extinguishing media:</b>	Not applicable

<b>Specific hazards arising from the chemical:</b>	In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide - toxic pyrolysis products
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#### Special protective equipment and precautions for firefighters

<b>Special fire fighting procedures:</b>	Keep away from sources of ignition - no smoking. Take action to prevent static discharges. Cool endangered containers by water spray
<b>Special protective equipment for fire-fighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Keep away sources of ignition.
<b>Methods and material for containment and cleaning up:</b>	Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
<b>Environmental Precautions:</b>	Do not allow to enter drains

## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation):</b>	Good general (mechanical) ventilation should be sufficient to control airborne levels.
<b>Safe handling advice:</b>	Avoid contact with skin and eyes. Do not inhale vapours Provide good ventilation of working area (local exhaust ventilation if necessary).
<b>Contact avoidance measures:</b>	No data available.
<b>Hygiene measures:</b>	Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin. Do not eat, drink or smoke while working. Wash hands thoroughly before breaks and after every working shift.

### Storage

<b>Safe storage conditions:</b>	Keep container tightly closed in a cool, well-ventilated place.
<b>Safe packaging materials:</b>	No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.  
 Hazardous components without workplace control parameters

<b>Appropriate Engineering Controls</b>	Good general (mechanical) ventilation should be sufficient to control airborne levels.
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### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Chemical goggles unless a full facepiece respirator is also worn. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.

#### Skin Protection

**Hand Protection:** Additional Information: Gloves (solvent-resistant)

**Skin and Body Protection:** None required

**Respiratory Protection:** In case of exceeded TLV: respiratory protective equipment, cartridge for organic gases and vapors.

**Hygiene measures:** Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin. Do not eat, drink or smoke while working. Wash hands thoroughly before breaks and after every working shift.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	yellowish, clear
<b>Odor:</b>	Aromatic
<b>Odor Threshold:</b>	not measured
<b>pH:</b>	not determined

<b>Freezing point:</b>	not measured
<b>Boiling Point:</b>	329 - 338 °F
<b>Flash Point:</b>	120 °F
<b>Evaporation Rate:</b>	not measured
<b>Flammability (solid, gas):</b>	no data available

<b>Explosive limit - upper (%):</b>	6.2 %(V) Solvent
<b>Explosive limit - lower (%):</b>	0.8 %(V) Solvent
<b>Vapor pressure:</b>	2 mbar (20 °C) Solvent
<b>Vapor density (air=1):</b>	not measured
<b>Density:</b>	0.8097 - 0.81 g/cm <sup>3</sup> (25 °C)
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-octanol/water):</b>	not measured
<b>Self Ignition Temperature:</b>	not measured
<b>Decomposition Temperature:</b>	No data available.
<b>Kinematic viscosity:</b>	No data available.
<b>Dynamic viscosity:</b>	approx. 3 mPa.s (25 °C, DIN 51562)
<b>Other information</b>	
<b>Explosive properties:</b>	not measured
<b>Oxidizing properties:</b>	not measured
<b>Minimum ignition temperature:</b>	345 °C Solvent
<b>Metal Corrosion:</b>	not measured

## 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions"
<b>Chemical Stability:</b>	The product is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No No hazardous reactions with proper storage and handling.
<b>Conditions to avoid:</b>	Unknown
<b>Incompatible Materials:</b>	Unknown
<b>Hazardous Decomposition Products:</b>	None with proper storage and handling.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	If handled correctly, not a relevant route of exposure. Information on effects are given below.
<b>Skin Contact:</b>	Relevant route of exposure. Information on effects are given below.
<b>Eye contact:</b>	Relevant route of exposure. Information on effects are given below.

**Ingestion:** If handled correctly, not a relevant route of exposure. Information on effects are given below.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

#### Information on toxicological effects

##### Acute toxicity (list all possible routes of exposure)

###### Oral

**Product:** no data available  
Acute toxicity estimate : > 5,000 mg/kg

###### Dermal

**Product:** no data available  
Acute toxicity estimate : > 5,000 mg/kg

###### Inhalation

**Product:** no data available

##### Repeated dose toxicity

**Product:** no data available

##### Skin Corrosion/Irritation

**Product:** no data available

##### Serious Eye Damage/Eye Irritation

**Product:** no data available

##### Respiratory or Skin Sensitization

**Product:** no data available

##### Carcinogenicity

**Product:** No data available.

##### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

##### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

##### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

**In vitro**  
**Product:** No data available.

**In vivo**  
**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** no data available

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** no data available

**Aspiration Hazard**

**Product:** Not classified

**Other effects:** Irritating to respiratory system.

**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:**

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

**Chronic hazards to the aquatic environment:**

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

**Toxicity to Aquatic Plants**  
**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**  
**Product:** No data available.

**BOD/COD Ratio**  
**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)****Product:** No data available.**Partition Coefficient n-octanol / water (log Kow)****Product:** Log Kow: not measured**Mobility in soil:** No data available.**Components:**

4-Heptanone, 2,6-dimethyl- No data available.

**Other adverse effects:** Do not allow to enter soil, waterways or waste water canal.**13. Disposal considerations****Disposal methods:** In accordance with local authority regulations, take to special waste incineration plant**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.**14. Transport information****Domestic regulation****49 CFR**

UN/ID/NA number : UN 1157

Proper shipping name : Diisobutyl ketone

Class : 3

Packing group : III

Labels : 3

ERG Code : 128

Marine pollutant : no

Remarks : For USA only: This product is not regulated in packages &lt; 119 gallons / 450 L. In bulk packages this products is a Combustible Liquid, NA1993.

**International Regulations****IATA-DGR**

UN/ID No. : UN 1157

Proper shipping name : Diisobutyl ketone

Class : 3

Packing group : III



Labels : 3  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

**IMDG-Code**

UN number : UN 1157  
Proper shipping name : DIISOBUTYL KETONE

Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no  
Remarks : Stowage category A

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**15. Regulatory information****US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Specific target organ toxicity (single or repeated exposure)

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

**SARA 311/312 Hazardous Chemical**  
Chemical Identity                      Threshold Planning Quantity

**SARA 313 (TRI Reporting)**  
 None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**  
 None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**  
 No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**  
Chemical Identity  
 4-Heptanone, 2,6-dimethyl-

**US. Massachusetts RTK - Substance List**  
 No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**  
Chemical Identity  
 4-Heptanone, 2,6-dimethyl-

**US. Rhode Island RTK**  
 No ingredient regulated by RI Right-to-Know Law present.

**Inventory Status:**

US TSCA Inventory:                      Included on Inventory.  
 Canada DSL Inventory List:            Included on Inventory.

**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

<b>Health</b>	2
<b>Flammability</b>	2
<b>Physical Hazards</b>	0
<b>PERSONAL PROTECTION</b>	X

Consult supervisor for special handling instructions for these substances.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**Issue Date:**                              03/15/2019

**Version #:**                                1.0

<b>Further Information:</b>	CTFA: complies
<b>Revision Information:</b>	Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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