SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: TEGO® Airex 931

Chemical name:
Flurosililcone Solution

Other means of identification

Recommended restrictions

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

Manufacturer/Importer/Distributor Information

Company Name	:	Evonik Corporation 2 Turner Place Piscataway, NJ 08854 USA
Telephone	:	+1 732 981 5000
E-mail	:	product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health Emergency	:	+1 800 424 9300 (CHEMTREC - US & CANADA) 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[1.]

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:
Flurosililcone Solution

Mixtures

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

* 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.

Skin Contact: Remove contaminated clothing immediately. Wash off with soap and water. If irritation persists, consult a physician and show this data sheet.

Eye contact: 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.

Ingestion:	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.
Personal Protection for First-aid Responders:	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

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

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media:	Not applicable
Specific hazards arising from the chemical:	In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide - toxic pyrolysis products

Special protective equipment and precautions for firefighters

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

6. Accidental release measures

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

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	Good general (mechanical) ventilation should be sufficient to control airborne levels.
Safe handling advice:	Avoid contact with skin and eyes. Do not inhale vapoursProvide good ventilation of working area (local exhaust ventilation if necessary).

Contact avoidance measures: No data available.

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.

Storage

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Safe packaging materials: 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

Appropriate Engineering Controls Good general (mechanical) ventilation should be sufficient to control airborne levels.

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

Physical state:	liquid
Form:	liquid
Color:	yellowish, clear
Odor:	Aromatic
Odor Threshold:	not measured
pH:	not determined
Freezing point:	not measured
Boiling Point:	329 - 338 °F
Flash Point:	120 °F
Evaporation Rate:	not measured
Flammability (solid, gas):	no data available

Explosive limit - upper (%):	6.2 %(V) Solvent
Explosive limit - lower (%):	0.8 %(V) Solvent
Vapor pressure:	2 mbar (20 °C) Solvent
Vapor density (air=1):	not measured
Density:	0.8097 - 0.81 g/cm3 (25 °C)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Self Ignition Temperature:	not measured
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	approx. 3 mPa.s (25 °C, DIN 51562)
Other information	
Explosive properties:	not measured
Oxidizing properties:	not measured
Minimum ignition temperature:	345 °C Solvent
Metal Corrosion:	not measured

10. Stability and reactivity

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

11. Toxicological information

Information on likely routes of exposure

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

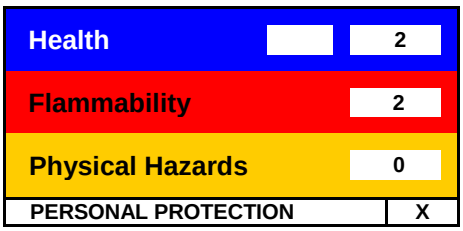
No ingredient regulated by RI Right-to-Know Law present.

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



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

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

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