

Product name: TEGO® Airex 931

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: TEGO® Airex 931

Chemical name:
Flurosilicone Solution

Other means of identification
None.

Recommended restrictions

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

Manufacturer/Importer/Distributor Information

Company Name	: Evonik Corporation Nutrition & Care 7801 Whitepine Road Richmond, VA 23237 USA
Telephone	: +1 804 727 0700
Fax	: +1 804 727 0845
E-mail	: product-regulatory-services@evonik.com

Emergency telephone number:

24 Hour Emergency Telephone	: +1 800 424 9300 (CHEMTREC - US & CANADA) 800 681 9531 (CHEMTREC MEXICO) +1 703 527 3887 (CHEMTREC WORLD)
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2. Hazard(s) identification

Hazards for the product as supplied

Physical Hazards

Flammable liquids	Category 3
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Health Hazards

Specific Target Organ Toxicity - Single Exposure	Category 3 (Respiratory tract irritation.)
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**Hazard(s) not otherwise
classified (HNOC):** None.

Label Elements

Product name: TEGO® Airex 931

Hazard Symbol:

Signal Word: Warning

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

Precautionary Statements
Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing 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 or doctor/ physician if you feel unwell. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

3. Composition/information on ingredients
Chemical name:
 Fluorosilicone Solution

Mixtures

Chemical Identity	Common name and synonyms	CAS No./Unique ID	Content in percent (%) [*]	Trade Secret
4-Heptanone, 2,6-dimethyl-		108-83-8 [*]	80 - <100%	TSC

^{*} Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

^{*} 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

Product name: TEGO® Airex 931

Description of first aid measures

General information:	Remove soiled or soaked clothing immediately
Inhalation:	fresh air supply, consult a doctor if feeling unwell.
Skin Contact:	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
Eye contact:	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
Ingestion:	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	Up to now no symptoms are known.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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5. Fire-fighting measures**Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media:	foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media:	High volume water jet.
Special hazards arising from the substance or mixture:	In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide - toxic pyrolysis products Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Keep away from sources of ignition. Take action to prevent static discharges. Vapours may form explosive mixtures with air. Cool endangered containers by water spray
Special protective equipment for fire-fighters:	Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep away sources of ignition. Ensure adequate ventilation.
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Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Take up with absorbent material (eg sand, diatomaceous earth, universal binder) Dispose of absorbed material in accordance with the regulations.
Environmental Precautions:	Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

7. Handling and storage

Handling

Technical measures:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols.
Contact avoidance measures:	No data available.

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

Components	Type	Form of exposure	Exposure Limit Values		Source
4-Heptanone, 2,6-dimethyl-	TWA		25 ppm		ACGIH (03 2016)
	REL		25 ppm	150 mg/m3	NIOSH (2010)
	PEL		50 ppm	290 mg/m3	OSHA Z1 (03 2016)
	IDLH		500 ppm		NIOSH IDLH (10 2017)
	TWA		25 ppm	150 mg/m3	OSHA Z1A (1989)
	TWA		25 ppm	150 mg/m3	TN OEL (06 2008)
	AN ESL			145 µg/m3	TX ESL (06 2018)
	ST ESL			1,450 µg/m3	TX ESL (06 2018)
	AN ESL			25 ppb	TX ESL (06 2018)
	ST ESL			250 ppb	TX ESL (06 2018)
	TWA PEL		25 ppm	150 mg/m3	US CA OEL (01 2015)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

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

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Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Safety glasses

Skin Protection

Hand Protection: Additional Information: Protective gloves

Skin and Body Protection: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: yellowish

Odor: Aromatic

Odor Threshold: not measured

Freezing point: not measured

Boiling Point: 329 - 338 °F/ 165 - 170 °C

Flammability: not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured

Explosive limit - lower: not measured

Flash Point: 120 °F/49 °C
Method: DIN 53213

Auto-ignition temperature: 653 °F/345 °C
Solvent

Decomposition Temperature: not measured

pH: Not applicable

Viscosity

Dynamic viscosity: Approximate
3 mPa.s (77 °F/25 °C)
Method: DIN 51562

Kinematic viscosity: Approximate
4 mm²/s (77 °F/25 °C),
Method: calculated

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Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	2 mbar (68 °F/20 °C) Solvent
Relative density:	not measured
Density:	0.81 g/cm ³ (77 °F/25 °C) Method: DIN 51757
Bulk density:	No data available.
Relative vapor density:	not measured
Particle characteristics:	Not applicable.
Other information	
Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Self-ignition:	not measured
Metal Corrosion:	Not corrosive to metals
Evaporation Rate:	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 hazardous reactions with proper storage and handling
Conditions to avoid:	Open flames, sparks or input of much heat
Incompatible Materials:	Not known.
Hazardous Decomposition Products:	None with proper storage and handling.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

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Inhalation: No data available.**Skin Contact:** No data available.**Eye contact:** No data available.**Ingestion:** No data available.**Acute toxicity (list all possible routes of exposure)****Oral****Product:** LD 50, ATEmix, > 5,000 mg/kg**Components:**

4-Heptanone, 2,6- LD 50, Rat, Female, 5,233 mg/kg, OECD 401

dimethyl- LD 50, Rat, Male, 6,899 mg/kg, OECD 401

Dermal**Product:** LD 50, ATEmix, > 5,000 mg/kg**Components:**

4-Heptanone, 2,6- LD 50, Rabbit, 16,000 mg/kg

dimethyl- LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 402

Inhalation**Product:** No data available.

Not classified for acute toxicity based on available data.

Components:

4-Heptanone, 2,6- Vapour, Not toxic after single exposure, No data available.

dimethyl- Dust and mist, Not toxic after single exposure, No data available.

Repeated dose toxicity**Product:** No data available.**Skin Corrosion/Irritation****Product:** No data available.**Components:**

4-Heptanone, 2,6- Not irritating, OECD 404, Rabbit

dimethyl-

Serious Eye Damage/Eye Irritation**Product:** No data available.**Components:**

4-Heptanone, 2,6- Not irritating, OECD 405, Rabbit

dimethyl-

Respiratory or Skin Sensitization**Product:** No data available.**Components:**

4-Heptanone, 2,6- Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

dimethyl-

Carcinogenicity**Product:** No data available.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

No data available.

In vitro

Not classified based on available data.

In vivo

Not classified based on available data.

Reproductive toxicity**Effects on fertility**

Not classified based on available data.

Effects on fetal development

Not classified based on available data.

Reproductive toxicity - Assessment**Product:** Reproductive toxicity: No data available.
Teratogenicity: No data available.**Specific Target Organ Toxicity - Single Exposure****Product:** No data available.**Components:**

4-Heptanone, 2,6-dimethyl- Inhalation - vapor, Respiratory system, Category 3 with respiratory tract irritation.

Specific Target Organ Toxicity - Repeated Exposure**Product:** No data available.**Aspiration Hazard****Product:** Not classified**Components:**

4-Heptanone, 2,6-dimethyl- Not classified

Information on health hazards**Other hazards****Product:** No data available.**12. Ecological information****Ecotoxicity:****Toxicity to Aquatic Plants****Product:** No data available.**Components:**4-Heptanone, 2,6-dimethyl- NOEC, Algae (*Pseudokirchneriella subcapitata*), 72 h, 3.55 mg/l, OECD 201
EC 50, Algae (*Pseudokirchneriella subcapitata*), 72 h, 46.9 mg/l, OECD 201

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Toxicity to microorganisms**Product:** No data available.**Components:**

4-Heptanone, 2,6-dimethyl- IC 50, Bacteria, 16 h, 255 mg/l, OECD 209

Toxicity to soil dwelling organisms**Product:** No data available.**Toxicity to terrestrial organisms****Product:** No data available.**Acute hazards to the aquatic environment:****Fish****Product:** No data available.**Components:**4-Heptanone, 2,6-dimethyl- LC 50, Oncorhynchus mykiss, 96 h, 30 mg/IOECD 203
NOEC, Oncorhynchus mykiss, 96 h, 23.1 mg/IOECD 203**Aquatic Invertebrates****Product:** No data available.**Components:**4-Heptanone, 2,6-dimethyl- EC 50, Daphnia magna, 48 h, 37.2 mg/IOECD 202
NOEC, Daphnia magna, 48 h, 15.9 mg/IOECD 202**Chronic hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Persistence and Degradability****Biodegradation****Product:** No data available.**Components:**

4-Heptanone, 2,6-dimethyl- 88 %, 20 d, OECD 301 D, The product is easily biodegradable., aerobic

BOD/COD Ratio

No data available.

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

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Results of PBT and vPvB assessment:

No data available.

Other adverse effects:

Additional ecological information

Product: Do not allow to enter soil, waterways or waste water canal.

Ozone-Depletion Potential

Product: Regulation: No

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

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 or ID 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.

Product name: TEGO® Airex 931**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 (on the basis of current knowledge of the product composition).

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721 and 725, Subpt E)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

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

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US. EPCRA (SARA Title III) Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US State Regulations**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

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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

Health	2
Flammability	2
Physical Hazards	0
PERSONAL PROTECTION	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

Version #:	2.0
Revision Date:	10/30/2025
Date of first report version:	03/13/2019

Abbreviations and acronyms:

ACGIH:	US. ACGIH Threshold Limit Values, as amended
NIOSH IDLH:	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
NIOSH/GUIDE:	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
OSHA_TRANS:	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
TN OEL:	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
TX ESL:	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
US CA OEL:	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
Z1A:	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
ACGIH / TWA:	Time Weighted Average (TWA):
NIOSH IDLH / IDLH:	Immediately dangerous to life or health (IDLH) concentration:
NIOSH/GUIDE / REL:	Recommended exposure limit (REL):
OSHA_TRANS / PEL:	Permissible exposure limit:
TN OEL / TWA:	Time Weighted Average (TWA):
TX ESL / ST ESL:	Short-Term ESL:
TX ESL / AN ESL:	Annual ESL:
US CA OEL / TWA PEL:	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):
Z1A / TWA:	Time Weighted Average (TWA):

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials;
 bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act;
 CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for
 Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -
 Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency
 Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS -

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Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information:

CTFA: complies

Revision Information

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer:

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