

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012

Trade name: CleanFlush Flushing Fluid

1 Identification of the substance/mixture and of the company/undertaking

• 1.1 Product identifier

• **Trade name:** CleanFlush Flushing Fluid

• **Article number:** CFF-001, CFF-003

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

No further relevant information available.

• **Application of the substance / the preparation** Holding tank deodorant

Product dilution information: Fill service reservoir or waste container with 2 oz. of Flushing Fluid per quart of water.
Stronger charge recommended for heavy usage.

• 1.3 Details of the supplier of the Safety Data Sheet

• **Manufacturer/Supplier:**

Aircraft Technologies, Inc.

3650 Highpoint Street

San Antonio, Texas 78217

Phone: 210-590-6858

FAX: 210-590-7509

Email: sales@aircrafttech.com

Website: www.aircrafttech.com

• 1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

2 Hazards identification

• 2.1 Classification of the substance or mixture

• **Classification according to Regulation (EC) No 1272/2008**

Product as SOLD	Product at USE DILUTION
 GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	Not classified. Not classified. Not classified.

• **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

 Xi; Irritant R36/38: Irritating to eyes and skin.	Not classified.
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• **Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.	The mixture does not meet the criteria for classification.
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• **Classification system:**

The classification is according to the latest editions of the EU-lists and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists and is supplemented by information from technical literature and by information provided by the company.

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2.2 Label elements

Product as SOLD	Product at USE DILUTION
• Labeling according to Regulation (EC) No 1272/2008	
The product is classified and labeled according to the CLP regulation.	The mixture does not meet the criteria for classification.
• Hazard pictograms	
 GHS07	None
• Signal word Warning	None
• Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	Avoid contact with eyes.
• Precautionary statements	
P280 Wear protective gloves/eye protection. P264 Wash hands thoroughly after handling. P305+351+338+337+313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. P302+362+353+332+313 IF ON SKIN: Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: get medical advice/attention.	Keep out of reach of children. Wear protective eyewear if eye contact is possible.
• Additional information:	
None	

3 Composition/information on ingredients**3.2 Mixtures****• Description:** Mixture of substances listed below with nonhazardous additions.

• Dangerous components:		
CAS: 68391-01-5	Alkyl dimethyl benzyl ammonium chloride (C12-18)  C R34;  Xn R22  Skin Corr. 1B, H314  Acute Tox. 4, H302	1%
CAS: 85409-23-0	Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alternate CAS 68956-79-6)  C R34;  Xn R22;  Xi R37  Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302; STOT SE 3, H335	1%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol  F R11  Flam. Liq. 2, H225	0.12%

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• **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

• 4.1 Description of first aid measures	
Product as SOLD	Product at USE DILUTION
• After inhalation: Supply fresh air; consult doctor in case of complaints. • After skin contact: Wash with water and rinse thoroughly. If skin irritation continues consult a doctor. • After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist consult a doctor. • After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.	No special measures required. Treat symptomatically. No known effect after skin contact. Rinse with water for a few minutes. No known effect after eye contact. Rinse with water for a few minutes. If irritation persists, get medical attention. Get medical attention if symptoms occur.
• 4.2 Most important symptoms and effects both acute and delayed Gastric or intestinal disorders.	
• Hazards No further relevant information available.	No known effects.
• 4.3 Indication of any immediate medical attention and special treatment needed	
If necessary oxygen respiration treatment. Medical supervision for at least 48 hours.	Treat symptomatically.

5 Fire-fighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** No further relevant information available.

6 Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures	
Product as SOLD	Product at USE DILUTION
Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation	Use personal protective equipment as required.
• 6.2 Environmental precautions:	
Do not allow to enter sewers/ surface or ground water.	Avoid contact of large amounts of spilled material and run off with soil and surface waterways.

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6 Accidental release measures

• 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
Ensure adequate ventilation.

Large Spills: Flush area with water. Prevent entry into waterways.
Small Spills: Wipe up with absorbent material.

• 6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

• 7.1 Precautions for safe handling

Product as SOLD

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Product at USE DILUTION

Wash hands thoroughly after handling.

• Information about fire - and explosion protection:

Protect from heat.

No precautions necessary.

• 7.2 Conditions for safe storage, including any incompatibilities

• Storage:

• Requirements to be met by storerooms and receptacles:

Product as SOLD

Keep out of reach of children.

Product at USE DILUTION

Keep out of reach of children.

• Information about storage in one common storage facility:

Store away from oxidizing agents.
Store away from foodstuffs.

Store away from oxidizing agents.
Store away from foodstuffs.

• Further information about storage conditions:

No storage precautions necessary.

No storage precautions necessary.

• 7.3 Specific end use(s)

No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

Product as SOLD

Product at USE DILUTION

• 8.1 Control parameters

• Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• DNELs No further relevant information available.

• PNECs No further relevant information available.

• Additional information: The lists valid during the making were used as basis.

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• 8.2 Exposure controls**• Personal protective equipment:****• General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

• Respiratory protection:

Not required under normal conditions of use.
Use suitable respiratory protective device in case of insufficient ventilation.
NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Not required under normal conditions of use.
Use suitable respiratory protective device in case of insufficient ventilation.
NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.

• Protection of hands:**Product as SOLD**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Product at USE DILUTION

No protective equipment is needed under normal conditions.

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

No protective equipment is needed under normal conditions.

• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

No protective equipment is needed under normal conditions.

• For the permanent contact gloves made of the following materials are suitable: Rubber gloves**• Eye protection:**

Safety glasses

No protective equipment is needed under normal conditions.

• Body protection:

Not required under normal conditions of use.
Protection may be required for spills.

No protective equipment is needed under normal conditions.

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• Limitation and supervision of exposure into the environment

No further relevant information available.

No further relevant information available.

• Risk management measuresSee Section 7 for additional information.
No further relevant information available.See Section 7 for additional information.
No further relevant information available.**9 Physical and chemical properties**

	Product as SOLD	Product at USE DILUTION
• 9.1 Information on basic physical and chemical properties		
• General Information		
• Appearance:		
Form:	Liquid	Liquid
Color:	Clear	Clear
• Odor:	Odorless	Odorless
• Odor threshold:	Not determined.	Not determined.
• pH-value at 25 °C:	7.5	6.5-7.5
• Change in condition		
Melting point/Melting range:	Undetermined.	Undetermined.
Boiling point/Boiling range:	212 °F / 100 °C	212 °F / 100 °C
• Flash point:	>210 °F / >98 °C	>210 °F / >98 °C
• Flammability (solid, gaseous):	Not applicable.	Not applicable.
• Ignition temperature:	Not determined.	Not determined.
• Decomposition temperature:	Not determined.	Not determined.
• Self-igniting:	Product is not self-igniting.	Product is not self-igniting.
• Danger of explosion:	Product does not present an explosion hazard.	Product does not present an explosion hazard.
• Explosion limits:		
Lower:	Not determined.	Not determined.
Upper:	Not determined.	Not determined.
• Vapor pressure at 20 °C:	Not determined	Not determined.
• Density at 20 °C:	1.00 g/cm ³	
• Relative density	Not determined.	Not determined.
• Vapor density	Not determined.	Not determined.
• Evaporation rate	Not determined.	Not determined.
• Solubility in / Miscibility with water:	Fully miscible.	Complete
• Partition coefficient (n-octanol/water):	Not determined.	Not determined.
• Viscosity:		
Dynamic:	<100 mPas	
Kinematic:	Not determined.	Not determined.
• 9.2 Other information	No further relevant information available.	No further relevant information available.

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10 Stability and reactivity

Product as SOLD

- **10.1 Reactivity** Not determined.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with strong oxidizing agents.
Toxic fumes may be released if heated above the decomposition point.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:**
Possible in traces.
Carbon monoxide and carbon dioxide, Nitrogen oxides (NOx), Sulphur oxides (SOx)

11 Toxicological information

• 11.1 Information on toxicological effects

Product as SOLD	Product at USE DILUTION
• Acute toxicity: >5,000 mg/kg	Non-toxic at use-dilution.
• Primary irritant effect:	
• on the skin: Irritant to skin and mucous membranes.	No adverse effects due to skin contact are expected.
• on the eye: Irritating effect.	Direct contact with eyes may cause temporary irritation.
• Sensitization: No sensitizing effects known.	
• Additional toxicological information:	
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:	
Irritant At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.	Not classified No known significant effects or critical hazards.

12 Ecological information

Product as SOLD

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
This statement was deduced from the properties of the single components.
Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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13 Disposal considerations

• 13.1 Waste treatment methods

Product as SOLD	Product at USE DILUTION
• Recommendation Smaller quantities can be disposed of with household waste. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.	
	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

14 Transport information

Product as SOLD	
• 14.1 UN-Number • DOT, ADR, ADN, IMDG, IATA	N/A
• 14.2 UN proper shipping name • DOT, ADR, ADN, IMDG, IATA	Cleaning Compounds, NOI, liquid.
• 14.3 Transport hazard class(es) • DOT, ADR, ADN, IMDG, IATA • Class	N/A
• 14.4 Packing group • DOT, ADR, IMDG, IATA	N/A
• 14.5 Environmental hazards: • Marine pollutant:	No
• 14.6 Special precautions for user	Not applicable.
• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• UN "Model Regulation":	Cleaning Compounds, NOI, liquid.
Product at USE DILUTION Not intended for transport.	

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

Product as SOLD	Product at USE DILUTION
• Section 355 (extremely hazardous substances): None of the ingredients is listed.	
	Not applicable.
• Section 313 (Specific toxic chemical listings): None of the ingredients is listed.	
	None of the ingredients is listed.
• TSCA (Toxic Substances Control Act): All ingredients are listed.	
	All ingredients are listed.
• Proposition 65 (California): • Chemicals known to cause cancer: None of the ingredients is listed.	
	None of the ingredients is listed.

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Product as SOLD		Product at USE DILUTION
• Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		None of the ingredients is listed.
• Chemicals known to cause developmental toxicity:		
Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.		
64-17-5	ethanol	Not applicable.
• Carcinogenic Categories		
• EPA (Environmental Protection Agency)		
None of the ingredients is listed.		None of the ingredients is listed.
• IARC (International Agency for Research on Cancer)		
None of the ingredients is listed.		None of the ingredients is listed.
• TLV (Threshold Limit Value established by ACGIH)		
None of the ingredients is listed.		None of the ingredients is listed.
• NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		None of the ingredients is listed.
• OSHA-Ca (Occupational Safety & Health Administration)		
All ingredients are listed.		All ingredients are listed.
• Canada		
• Canadian Domestic Substances List (DSL)		
All ingredients are listed.		All ingredients are listed.
• Canadian Ingredient Disclosure list (limit 0.1%)		
64-17-5	ethanol	Not applicable.
• Canadian Ingredient Disclosure list (limit 1%)		
None of the ingredients is listed.		None of the ingredients is listed.
• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases

H226	Flammable liquid and vapor.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

R10	Flammable.
R21/22	Harmful in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R51	Toxic to aquatic organisms.

SDS File Name: CleanFlush Flushing Fluid-SDS

DOT Shipping Name: Cleaning Compounds, NOI, liquid.

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)

• Sources

SDS Prepared by:
 ChemTel Inc.
 1305 North Florida Avenue
 Tampa, Florida USA 33602-2902
 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
 Website: www.chemtelinc.com
Revision: 1/1/2024