



SAFETY DATA SHEET

1. Product and Company Identification

Product Name	AERO-KLEEN
Product Number	3BV
Product Type	Mixture
Product Use	Cleaner for aircraft carpet & upholstery.
Manufacturer	CFR, A Division of Tacony Corporation 3101 Wichita Court Fort Worth, TX 76140-1710
Company Contact	1-800-533-2557 or website www.cfrcorp.com
Emergency Telephone Number	1-800-270-5201

2. Hazards Identification

GHS Classification in accordance with 29CFR 1910 OSHA HCS

Skin corrosion/irritation, (Category 3) H316
Serious eye damage/eye irritation, (Category 2B) H320
Acute Aquatic toxicity (Category 3) H402
Chronic aquatic toxicity, (Category 3) H412

GHS Label elements, including precautionary statements

Pictogram	None required
Signal Word	Warning
Hazard Statements	
H316	Causes mild skin irritation.
H320	Causes eye irritation.
H402	Harmful to aquatic life
H413	Harmful to aquatic life with long lasting effects.
Precautionary Statements	
Prevention	
P264	Wash and rinse hands and exposed skin after handling concentrated product.
P273	Avoid release to the environment.
Response	
P332+P313	If skin irritation occurs, get medical attention.
P305+P351+P338	IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists, get medical attention.
Storage/Disposal	
P501	Dispose of contents/container in accordance with local, regional and federal regulations

3. Composition/Information on Ingredients

The criteria for listing components in this section are: Ingredients that meet the criteria for carcinogenic, toxic to reproduction, or specific target organ toxicity and components otherwise considered hazardous according to OSHA which exceed the cut off limits for SDS specified by the criteria for mixtures are listed. Non hazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.



Hazardous Components	CAS#	Classification	%
Sodium bicarbonate	533-96-0	H320	1-10%
Sodium lauroyl sarcosinate	137-16-6	H316, H320	1-5%
Nitrilotri(methylphosphonic acid)	6419-19-8	H319	1-5%
Nonylphenoxy poly(ethyleneoxy) ethanol	68412-54-4	H315, H319, H402, H412	1-3%
Acetic acid, hydroxy	79-14-1	H302, H314, H332	1-3%

4. First Aid Measures

Description of First Aid Procedures

In case of Eye Contact	Flush with cool running water for 15 minutes. If irritation persists, get medical attention.
In case of Skin Contact	Flush with cool water, Wash with soap and water, If irritation persists, get medical Attention.
If Inhaled	If symptoms develop, move to fresh air. If symptoms persist, get medical attention
If Ingested	Rinse mouth with water. Drink one or two glasses of water. Do not induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious person.
.Notes to Physician	Symptoms may be delayed.

General advice Seek medical attention if feeling unwell. Show the SDS to the physician in attendance.

5. Fire-fighting Measures

Flammable properties	Not flammable
Extinguishing media	Treat for surrounding material.
Protection of firefighters	Firefighters should wear protective clothing including self contained breathing apparatus
Hazardous combustion products	May include and not limited to oxides of carbon, nitrogen, and oxides of sulfur.
Unusual Fire, Explosion hazards	None known.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective Clothing. Stay upwind of spills or leaks.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers.
Methods for cleaning up	Before attempting clean up refer to hazard data given above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or water ways. Dike spill. Absorb spill with non reactive absorbent and place in a suitable, covered, labeled container for disposal. Never return spill to original container for reuse.
Environmental Precautions	Avoid release to the environment.

7. Handling and Storage

Precautions for Safe Handling	Use good industrial hygiene practices when handling this material
Conditions for Safe Storage	Keep out of reach of children. Keep from freezing, store in a cool dry place away from incompatible materials.

8. Exposure Controls and Personal Protection

Exposure limits			
Ingredients	CAS-No	OSHA PEL	ACGIH TLV
Sodium bicarbonate	533-96-0	15 mg/m ³ total dust, 5mg/m ³ (resp. fraction)	Not established
Sodium lauroyl sarcosinate	137-16-6	Not established	Not established
Nitrilotri(methylphosphonic acid)	6419-19-8	10 mg/m ³ TWA	Not established
Nonylphenoxy poly(ethyleneoxy) ethanol	68412-54-4	Not established	Not established
Acetic acid, hydroxy	79-14-1	Not established	Not established
Engineering controls	General ventilation normally adequate		
Personal protective equipment			
Eye/Face protection	Wear safety glasses with side shields if splash conditions exist.		
Hand protection	Rubber or nitrile gloves.		
Skin and body	As required by employer code.		
Respiratory protection	Use a NIOSH approved respirator when exposure guidelines are exceeded.		
General hygiene considerations	Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Wash hands well before breaks and immediately after handling the product.		

9. Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance/form	Slightly cloudy liquid
Color	Light tan to colorless
Odor	Fresh air
Odor threshold	Not established
pH	8.3-8.6 (Concentrate)
Melting point/freezing point	Not established
Initial Boiling point	> 212° F. (100° C.)
Flash point	> 200° F. (93° C.) Estimated
Evaporation rate	Not established
Flammability	Not flammable
Upper/lower flammability or Explosive limits	Not established
Vapor pressure	Not established
Vapor density	Not established
Specific gravity/density	1.028-1.036
Solubility in water	Complete
Partition coefficient:	Not established
Auto ignition temperature	Not established
Decomposition temperature	Not established
Stability and Reactivity	Stable and non reactive under normal use and storage conditions.
VOC	< 1%
% Volatile	Approx. 90%
Other safety Information	

10. Stability and Reactivity

Reactivity	Not reactive under normal use and storage.
Chemical Stability	Stable under normal storage conditions.
Hazardous reactions	None known.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong acids and oxidizers.
Hazardous decomposition products	May include but not limited to oxides of carbon, nitrogen, and oxides of sulfur.
Hazardous polymerization	Will not occur.

11. Toxicological Information

Ingredients	LC50
Sodium bicarbonate	> 5.03 mg/l 4 hours - inhalation rat
Sodium lauroyl sarcosinate	Not established
Nitrilotri(methylphosphonic acid)	Not established
Nonylphenoxy poly(ethyleneoxy) ethanol	Not established
Acetic acid, hydroxy	Not established
Ingredients	LD50
Sodium bicarbonate	5600 mg/kg (Oral-rat)
Sodium lauroyl sarcosinate	2000 mg/kg (Oral-rat)
Nitrilotri(methylphosphonic acid)	2,910 mg/kg (Oral-rat), 6,310 mg/kg (Dermal-rabbit)
Nonylphenoxy poly(ethyleneoxy) ethanol	Not established
Acetic acid, hydroxy	4,240 mg/kg (Oral rat)
Effects of acute exposure	
Eye	Causes eye irritation
Skin	Causes mild irritation.
Inhalation	Not normally a route of entry.
Ingestion	May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.
Sensitization	No data available.
Chronic effects of short and long term exposure	Prolonged exposure to skin may cause drying, defatting and irritation.
Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.

12. Ecological Information

Eco-toxicity	Components of this product have been identified as toxic with long lasting effects to the aquatic environmental.
Environmental effects	No data available.
Aquatic toxicity	
Nitrilotri (methylphosphonic acid)	LC50 Fish (Salmo gairdneri) : 160 mg/l 96 hours EC50 Daphnia magna (water flea): 297 mg/l 48 hours EC50 Algae (Skeletomena costatum): 80 mg/l 72 hours
Acetic acid, hydroxy	LC50 Fish (Brachydanio rerio): 5000 mg/l 96 hours
Persistence and Degradability	The phosphate may persist indefinitely or incorporate into biological systems.
Bioaccumulation/accumulation	No data available.
Partition coefficient	No data available.
Mobility in environmental media	No data available.
Chemical fate information	No data available.
Other adverse effects	No data available.

13. Disposal Considerations

Disposal instructions	Dispose in accordance with local, state, and federal regulations
Wastes from residues/unused Product	Containerize. Rinse area with water. Keep out of storm sewer/waterways.
Contaminated packaging	Dispose in accordance with all applicable regulations.



14. Transport Information

Basic shipping requirements: Not DOT regulated
Proper shipping name
Hazard class
UN number
Packing group
Special provisions

15. Regulatory Information

U.S federal regulations This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the SDS contains all of the information required by OSHA HCS 2012.

TSCA All ingredients are listed on the Toxic Substances Control Act or are exempt from listing.

CERCLA Super Fund 40CFR117.302 Product contains a material with a Reportable Quantity (RQ):
None

SARA Title III Section 311&312 Immediate (Acute) Health Hazard
Sodium lauroyl sarcosinate
Nitrilotri(methylphosphonic acid)
Nonylphenoxy poly(ethyleneoxy) ethanol

SARA Title III Section 313 Ingredients subject to the reporting requirements of Section 313:
None

California Proposition 65 This product does not contain intentional ingredients known to the State of California to cause cancer, birth defects or reproductive effects. However trace amounts of Ethylene oxide (CAS#71-25-8) and Propylene oxide (CAS#75-56-9) may be present and are listed as possible carcinogens in the state of California.

States Right to Know Reportable Chemicals:
Nonylphenoxy poly(ethyleneoxy) ethanol CAS#68412-54-4
Nitrilotri(methylphosphonic acid) CAS#6419-19-8

Inventory Status

Countries	Inventory Name	On Inventory (Yes/No)*
U.S.	Chemical Inventory List	Yes
Canada	Domestic substances list	Yes

- A δYesö indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

16. Other Information

HMIS RATING

HMIS LEGEND

Severe 4
 Serious 3
 Moderate 2
 Slight 1
 Minimal

Health	1
Flammability	0
Reactivity	0
Personal Protection	B



Disclaimer

To the best of our knowledge, the information included herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Issue date

March 16, 2014

Supersedes date

Previous issues.

Reason for update

Conform to GHS OSHA HCS 2012.

Expiration date

March 16, 2017