



1. Identification

Product identifier	Aviation Next Generation Degreaser - 1 lb 2 oz		
Other means of identification			
Product Code	No. 10322 (Item# 1004734)		
Recommended use	General purpose degreaser for aviation applications		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	Distributor information		
Manufactured or sold by:			
Company name	CRC Industries, Inc.		
Address	885 Louis Dr.		
	Warminster, PA 18974 US		
Telephone			
General Information	215-674-4300		
Technical Assistance	800-521-3168		
Customer Service	800-272-4620		
24-Hour Emergency (CHEMTREC)	800-424-9300 (US)		
Website	www.crcindustries.com		
2. Hazard(s) identification	I		
Physical hazards	Flammable aerosols	Category 2	
	Gases under pressure	Compressed gas	
Health hazards	Acute toxicity, oral	Category 4	

	Gases under pressure	Compressed gas
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Danger

Hazard statement

Prevention

Precautionary statement

Signal word

Flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. Wear protective gloves.

Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. 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 advice/attention.
Storage	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.

3. Composition/information on ingredients

Mixtures

Chemical name Common name and synonyms		%	
	156-60-5	80 - 90	
HFC-43-10mee	138495-42-8	10 - 20	
	124-38-9	3 - 5	
	67-63-0	1 - 3	
		156-60-5 HFC-43-10mee 138495-42-8 124-38-9	

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing modia	Water for Form Dry chemical nowder. Carbon dioxide (CO2)

Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
General fire hazards	Flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

6. Accidental release measures

o. Accidental release meas	50165
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Collect spillage. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices. For product usage instructions, see the product label.
Conditions for safe storage,	Level 1 Aerosol.
including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Contaminants (29 CFR 1910.1000) Type	Value
carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3
		5000 ppm
isopropyl alcohol (CAS 67-63-0)	PEL	980 mg/m3
		400 ppm
trans-1,2-dichloroethylene (CAS 156-60-5)	PEL	790 mg/m3
		200 ppm
US. ACGIH Threshold Limit Values	6	
Components	Туре	Value
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

Components		Туре	Va	alue	
trans-1,2-dichloroethylene (CAS 156-60-5)		TWA	20	0 ppm	
US. NIOSH: Pocket Guide Components		ards Type	V	alue	
carbon dioxide (CAS		STEL		1000 mg/m3	
124-38-9)					
				0000 ppm	
		TWA		000 mg/m3	
			50	000 ppm	
isopropyl alcohol (CAS 67-63-0)		STEL	12	225 mg/m3	
·			50	00 ppm	
		TWA	98	30 mg/m3	
			40)0 ppm	
trans-1,2-dichloroethylene (CAS 156-60-5)		TWA	79	00 mg/m3	
			20	00 ppm	
ological limit values					
ACGIH Biological Exposu	ire Indices				
Components	Value	Determinant	Specimen	Sampling Time	
isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	
* - For sampling details, ple	ase see the source	document.			
propriate engineering ntrols	should be mate or other engine exposure limits	ched to conditions. If a sering controls to main s have not been establi	oplicable, use pro tain airborne leve shed, maintain a	hour) should be used. Ventilation rate ocess enclosures, local exhaust ventil ls below recommended exposure lim irborne levels to an acceptable level. howers are recommended.	lation, iits. If
lividual protection measure	es, such as persor	al protective equipm	ent		
Eye/face protection	Wear safety gl	asses with side shields	(or goggles).		
Skin protection					
Hand protection	Wear protectiv	e gloves such as: Nitril	e. Polyvinyl alcol	nol (PVA). Viton/butyl.	
Other	Wear appropri	ate chemical resistant	clothing.		
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.				
Thermal hazards	Wear appropri	ate thermal protective	clothing, when ne	cessary.	
neral hygiene nsiderations	as washing aft		al and before eati	ve good personal hygiene measures, ng, drinking, and/or smoking. Routin /e contaminants.	
Physical and chemica	al properties				
pearance	•				
	1.1				

Physical state	Liquid.
Form	Aerosol.
Color	Colorless.
Odor	Slight ethereal.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-119.2 °F (-84 °C) estimated

Initial boiling point and boiling range	119.7 °F (48.7 °C) estimated
Flash point	None (Tag Closed Cup)
Evaporation rate	Fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2.5 % estimated
Flammability limit - upper (%)	18 % estimated
Vapor pressure	2967.3 hPa estimated
Vapor density	Not available.
Relative density	1.28 estimated
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	860 °F (460 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Percent volatile	96 % estimated

10. Stability and reactivity

Reactivity Chemical stability	The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.
Possibility of hazardous	No dangerous reaction known under conditions of normal use.
reactions	
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases. Alkali metals. Alkaline earth metals. Powdered metal.
Hazardous decomposition products	Carbon oxides. Hydrogen chloride. Phosgene. Hydrogen fluoride.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Information on toxicological eff	ects
Acute toxicity	In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and

Acute toxicity

Acute toxicity	central nervous system effects. May be fatal if swallowed and enters airways. Narcotic effects.		
Product	Species	Test Results	
Aviation Next Generation De	greaser - 1 lb 2 oz		
<u>Acute</u>			
Dermal			
LD50	Rabbit	5033.2 mg/kg calculated	

Product	Species	Test Results
Inhalation LC50	Rat	06.6 mg/L 4 hours calculated
	Rai	96.6 mg/l, 4 hours calculated
Oral LD50	Rat	1465.7 mg/kg calculated
Components	Species	Test Results
isopropyl alcohol (CAS 67-63-0)	00000	
<u>Acute</u>		
Dermal		
LD50	Rabbit	5030 - 7900 mg/kg
Inhalation		
LC50	Rat	16000 ppm, 4 hours
Oral		
LD50	Rat	4700 - 5800 mg/kg
* Estimates for product may b	be based on additional component data not shown	
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sens	itization
Germ cell mutagenicity	No data available to indicate product or any cor	
connicon matagomony	mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
- ·	Evaluation of Carcinogenicity	
Not listed. OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)	
Not listed.		
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological informatio	n	
Ecotoxicity		hazardous. However, this does not exclude the
		a harmful or damaging effect on the environment.
Persistence and degradability		
Bioaccumulative potential		
Partition coefficient n-octar isopropyl alcohol	nol / water (log Kow) 0.05	
trans-1,2-dichloroethylene	2.06	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal instructions	The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty container can be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.
Hazardous waste code	Not regulated.
US RCRA Hazardous Waste	U List: Reference
trans-1,2-dichloroethylen	e (CAS 156-60-5) U079
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DO	I			
		ī	IN	

UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
Special precautions for us	ser Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
ERG Code	10L
Special precautions for us Other information	ser Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, Limited Quantity
Transport hazard class(es	
Class	2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	••
Marine pollutant	No
EmS	Not available.
	ser Read safety instructions, SDS and emergency procedures before handling.



15. Regulatory information

for Rogalatory mormati		
US federal regulations	This product is a "Hazardo Standard, 29 CFR 1910.12	ous Chemical" as defined by the OSHA Hazard Communication 200.
TSCA Section 12(b) Ex	port Notification (40 CFR 7	07, Subpt. D)
decafluoropentane SARA 304 Emergency	(CAS 138495-42-8) release notification	1.0 % One-Time Export Notification only.
Not regulated.		
OSHA Specifically Reg	julated Substances (29 CFR	1910.1001-1053)
Not listed.		
	ubstance List (40 CFR 302.4	4)
•	hylene (CAS 156-60-5)	
	ubstances: Reportable quai	-
	hylene (CAS 156-60-5)	1000 LBS
Spills or releases resulti Response Center (800-	ng in the loss of any ingredier 424-8802) and to your Local E	nt at or above its RQ require immediate notification to the National Emergency Planning Committee.
Other federal regulations		
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Polluta	ants (HAPs) List
Not regulated.		
Clean Air Act (CAA) Sectio	n 112(r) Accidental Release	Prevention (40 CFR 68.130)
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
FEMA Priority Substar	nces Respiratory Health and	I Safety in the Flavor Manufacturing Workplace
isopropyl alcohol (C	CAS 67-63-0)	Low priority
Food and Drug Administration (FDA)	Not regulated.	
Superfund Amendments and R	eauthorization Act of 1986	(SARA)
Classified hazard	Flammable (gases, aeroso	ols, liquids, or solids)
categories	Gas under pressure	formaning
	Acute toxicity (any route o Skin corrosion or irritation	r exposure)
	Serious eye damage or ey	re irritation
	Specific target organ toxic Aspiration hazard	ity (single or repeated exposure)
SARA 302 Extremely haza	rdous substance	
Not listed.		

SARA 311/312 Hazardous Yes chemical

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 81.7 % 51.100(s))

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 313 (TRI reporting)

Not regulated.

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

carbon dioxide (CAS 124-38-9) isopropyl alcohol (CAS 67-63-0) trans-1,2-dichloroethylene (CAS 156-60-5)

US. Massachusetts RTK - Substance List

carbon dioxide (CAS 124-38-9) isopropyl alcohol (CAS 67-63-0) trans-1,2-dichloroethylene (CAS 156-60-5)

US. Pennsylvania Worker and Community Right-to-Know Law

carbon dioxide (CAS 124-38-9) isopropyl alcohol (CAS 67-63-0) trans-1,2-dichloroethylene (CAS 156-60-5)

US. Rhode Island RTK

carbon dioxide (CAS 124-38-9) isopropyl alcohol (CAS 67-63-0) trans-1,2-dichloroethylene (CAS 156-60-5)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

isopropyl alcohol (CAS 67-63-0) trans-1,2-dichloroethylene (CAS 156-60-5)

Volatile organic compounds (VOC) regulations

EPA

Consumer products (40 CFR 59, Subpt. C)	Not regulated
te	

State

VOC content (CA)	96.1 %
VOC content (OTC)	81.7 %
Consumer products	This product is regulate

This product is regulated as a General Purpose Degreaser (aerosol). This product is not compliant to be sold for use in California, Colorado, Connecticut, Delaware, the District of Columbia, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island and parts of Utah and Virginia. This product is compliant in all other states.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes

Country(s) or region	Inventory name On inventory	(yes/no)*
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compo	nents of this product comply with the inventory requirements administered by the governing country(s)	

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date Prepared by Version # Further information	04-22-2020 Dustin Kern 01 CRC # 697/1002744
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Revision information	This document has undergone significant changes and should be reviewed in its entirety.