



25025-2009

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AIR BLAST CANNED PROPELLANT MATERIAL SAFETY DATA SHEET

Item

020 010 6 oz AIRBLAST (12 bottles per case)
 020 014 16 oz AIRBLAST (12 bottles per case)

1. Chemical Product and Company Identification

Product Name: Micro Freeze Circuit Cooler; #MCC-FRZ. Micro Blast Dry Circuit Cleaner. #MCC-DST. #MCC-DSTZ, Big Blast Dry Circuit Cleaner; #MCC-AIR, #MCC-AIRZ.

Chemical Family: Halogenated Hydrocarbon

Formula: CH₂FCF₃

Packaged By: Micro Care Corp., 595 John Downey Dive, New Britain. CT 06051 USA

CAGE/FSCM: OATV9

Emergency Telephone: CHEMTREC (800) 424-9300

2. Composition/Information on Ingredients

Material:

Chemical Name	Wt. % Range	TLV Units
Tetrafluoroethane	100.0	1000 ppm
CAS #811-97-2		

All components of this material are listed on the TSCA inventory.

3. Hazard Identification

Emergency Overview: Clear colorless liquefied gas. Nonflammable. Liquid acts as a refrigerant and exposure of unprotected skin to liquid can cause frostbite. Keep away from children.

Potential Health Effects:

Eyes: Vapor contact: May irritate and cause pain and watering.

Liquid contact: Direct contact may irritate seriously with risk of frostbite. Persons wearing contact lenses should wear chemical protective safety glasses when using this product.

Skin: Contact can cause frostbite.

Ingestion: Not considered a potential route of exposure due to the volatile nature of material. Contact with liquid can cause frostbite to mouth and throat tissues.

Inhalation: Harmful if inhaled. Inhalation of high concentrations of vapors is harmful and may cause heart irregularities, unconsciousness or death. Intentional misuse or deliberate inhalation may cause death without warning. Vapor reduces oxygen available for breathing and is heavier than air.

Medical Conditions Aggravated by Exposure: Preexisting disease of the central nervous or cardiovascular system may have increased susceptibility to the toxicity of excessive exposures.

4. First Aid Measures

Eyes: Immediately flush with water. Remove any contact lenses and continue flushing for 15 minutes, lifting eyelids occasionally until no evidence of the chemical remains. If irritation develops or persists call a physician.

Skin: Wash promptly with soap and warm water for at least 15 minutes. Remove contaminated clothing and shoes. If irritation develops or persists call a physician.

Ingestion: Not considered a potential route of exposure. Treat for possible frostbite. Swallowing less than an ounce of material is unlikely to cause significant harm. For larger amounts, do not induce vomiting. Call a physician.

Inhalation: Remove to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Note to Attending Physician: There is no specific antidote to overexposure. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Immediate medical attention for acute overexposure is required.

5. Firefighting Measures

Flash Point: Will not burn.

Auto ignition Temperature: > 750° C

Flammable Limits in Air: LEL/UEL: Not applicable.

Extinguishing Media: Use dry chemical, "alcohol" foam, CO2 or water.

Special Firefighting Procedures: Evacuate personnel. Wear self contained breathing apparatus (SCBA) and full protective equipment. Keep containers cool. Containers build pressure under fire conditions causing violent bursting and dangerous propelling of container.

6. Accidental Release Measures

Spill or Leak: Although the chance of a large spill or leak is unlikely in aerosol containers, in the event of such an occurrence, evacuate area. Protected personnel should remove ignition sources and shut off fire sources. Provide ventilation.

7. Handling and Storage

Avoid breathing vapors or mist. Keep containers closed. Use only with adequate ventilation. Avoid repeated or prolonged contact with eyes, skin or clothing. Wash thoroughly after handling. Do not store in direct sunlight. Store in cool dry place, away from heat, sparks, or flames which may generate toxic decomposition products. Vapors are heavy and may concentrate in low poorly ventilated areas.

8. Exposure Controls/Personal Protection

Respiratory Protection: Use only with adequate ventilation. Keep container closed. Use approved NIOSH self-contained or supplied air respirators for emergencies and in situations where air may be displaced by vapors.

Eye Protection: Use chemical protective safety glasses

Protective Clothing: Where there is potential for skin contact, use appropriate impervious gloves, apron, pants and jacket

Exposure Guidelines: Applicable Exposure Limits.

Tetrafluoroethane:

PEL (OSHA)	non established
TLV (ACGIH)	non established
AEL (DuPont)	1000 ppm, 8 & 12 hour TWA
WEEL (AIHA)	1000 ppm, 8 hour TWA

NFPA, NPCS-HIMIS RATING:

Health 1
Flammability 0
Reactivity 1

Personal protection rating to be supplied by user depending on use conditions.

9. Physical and Chemical Properties

Physical Form: Liquefied Gas
Odor: Slight Ethereal
Boiling Point: -26.5° C / -15.7° F
PH: Not applicable
Solubility in Water: 0.15 wt. % @ 25° C (77° F) @ 14.7 psia.
Specific Gravity: 1.208 @ 25° C / 77° F
% Volatile by Weight: 100
Vapor Pressure: 96 psia @ 25° C / 77° F
Vapor Density (air=1): 3.6 @ 25° C / 77° F

10. Reactivity

Chemical Stability: Material is stable

Hazardous Polymerization: Will not occur.

Incompatibilities: Avoid oxidizing materials which can cause a reaction.

Decomposition Products: High temperatures (open flames, glowing metal surfaces, etc.) will decompose this material forming hydrofluoric acid and possibility carbonyl fluoride.

11. Toxicological Information

Carcinogenicity: None of the components present in this product are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

12. Ecological Information

Aquatic Toxicity:

48 hour EC50 – Daphnia magna: 980 mg/L

96 hour LC50 – Rainbow Trout: 450 mg/L

13. Disposal consideration

Waste Disposal: Recover by distillation or remove to a permitted waste disposal facility.

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local Regulations.

14. Transportation Information

Transport for Aerosol Packaging:

Ground Transport: Consumer Commodity ORM-D

Air Transport: Refrigerant Gas, N.O.S. (Tetrafluoroethane), UN1078, Class 2.0, Pkg. Group N/A. Pkg. Instr. 200, Authorization: "Cargo Aircraft Only" per DOT-E-10232. Note:

Exemption copy required with shipping papers. Hazard Label: Nonflammable Gas.

15. Regulatory Information

Section 313 Supplier Information: This material contains the following toxic chemicals subject to the emergency reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40 CFR 372.

CAS#	Chemical Name	% by Weight.
	None	

This information must be included in all MSDS's that are copied and distributed from this material.

Title III Hazard Communications Sections 311, 312

Acute	Yes
Chronic	No
Fire	No
Reactivity	No
Pressure	No

16. Other Information

For additional information, contact Tech Support at Micro Care:
Telephone (860) 827-0626 or e-mail: techsupport @ microcare.com

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Material Safety Data Sheet

Section I Product Identification

Product: Com-Art Acrylic Opaque Solution
-Various colors

Manufacturer: Iwata Medea
79 SE Taylor
Portland, OR 97214
Tel. (503) 253-7308

Section II Hazardous Ingredients

Ammonia: Approx. .4%
Isopropyl Alcohol: Approx .3%
All Pigments are Lead Free

Section III Physical Data

Boiling Point: Above 220 F
Vapor Pressure(mm Hg): N/A
Vapor Density(air =1): Heavier
Specific Gravity(H₂O = 1): Greater than 1
Evaporation Rate(Butyl Acetate =1): Like water
Solubility in Water: Infinite
Appearance: Many colors solutions
Odor: Slightly ammonia
PH: 8.5-9.0

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Section IV Fire and Explosion Hazards

Flashpoint: N/A
Extinguishing Media: Unknown
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: None

Section V Health Hazard Data

Threshold Limit Value: N/A
Effect of Overexposure: Sensitive skin might show slight irritation
Emergency and First Aid Procedure: If ingested call physician. Do not induce vomiting.
Eye and Skin contact flush with plenty of water.

Section VI Reactivity Data

Stable: Yes
Conditions to Avoid: Thermal decomposition or burning may produce Carbon Monoxide or Carbon Dioxide.
Hazardous Polymerization: Does not occur.
Conditions to Avoid: None

Section VII Spill or Leak Procedure

Steps to be Taken in Case Material is Spilled: Use water and an absorbent material(sponge or toweling)

Section VIII Special Protection Information

Respiratory Protection: Non required
Ventilation: Local exhaust Mechanical (general) acceptable.
Protective Gloves: Only if extended contact with skin.
Eye Protection: Safety glasses.

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Section IX Special Precautions

DO NOT FREEZE



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Material Safety Data Sheet

Distributor: Iwata-Medea, Inc
 1336 N. Mason
 Portland, OR 97217
 Ph: (503) 253-7308

Manufacturer: Custom Chemical Formulators, Inc.
 8707 Millersgrove Drive
 Santa Fe Springs, CA 90670
 Ph: (800) 424-9300

Section I - Product Identification

Product name or number	CCFI 01473
Trade name or chemical name	Super Flow SF -55
Sold as	Medea Airbrush Cleaner
Formula	Proprietary
Chemical family	Cleaner
Molecular weight	N/A
NFPA	See Section 8
HMIS Rating	See Section 8

Section II Hazardous Ingredients

Chemical Name (s)	CAS Number	%WT	TLV-ACGIH	PEL-OSHA	SEC.313	NTP	TARC	PROP .65
NONE			NA	NA	NO	NA	NA	NO

Section III Regulatory Data

NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
Proposition 65	This product does not contain ingredients on the list of proposition 65. State of California Safe Drinking Water and Toxic Enforcement act of 1986.

Section 313 Sara Title III The chemical (s) marked with a "yes" on section 313 are subject to the reporting requirements of this section.

Section IV - Physical Data

Boiling / Melting Point @ 760 mm Hg	>212° F
PH	<9.0
Percent Volatile be Weight	N/A
Specific Gravity or Bulk Density	N/A

Solubility in Water	Complete
Appearance	N/A
Odor	Clear Liquid

Section V Fire and Explosion Hazards

Flash point °F (test method)	N/A
Autoignition Temperature	N/A
Flammability Limits in air (% V)	Not determined
Extinguishing Media	Water, Carbon Dioxides, Foam, Dry Chemical.
Special Fire Fighting Procedures	Wear self contain breathing apparatus & full protective equipment.
Unusual Fire & Explosion Hazards	Extinguish all nearby sources of ignition

Section VI Health Hazard Data * Effects of Overexposure

Threshold Limit Value:	See Section 2
Signs and Symptoms of Exposure	
Eyes	Direct contact with concentrated product may cause moderate irritation and tearing.
Skin	Repeated or prolonged contact may cause irritation or drying.
Inhalation	Breathing dust or mist may irritate the nose and throat.
Ingestion	Swallowing large quantities may cause nausea, vomiting, diarrhea and abdominal pain.
Chronic Overexposure	None know

Section VII – Emergency and First Aid Procedures

Inhalation	Move subject to fresh air. If breathing is difficult, obtain medical help.
Eyes	Flush eyes with a large amount of water for at least 15 minutes. Consult a Physician if irritation persists.
Skin	Wash affected skin area with water. Consult a physician if irritation persists.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Give large quantities of water. Get medical attention immediately.

Section VIII – HMIS Rating System

HMIS Rating:	
Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	See Section 10

Section VIII – Reactivity Data

Product Stability	Stable
Conditions to avoid	Extreme heat, spark, open flame
Chemical Incompatibility	Strong acid, avid vapor. May produce carbon Dioxide, carbon monoxide.
Hazardous Decomposition	N/D

Hazardous Polymerization	Will not occur
Conditions to avoid	Extreme heat, spark, open flame.
Corrosive to metal	No
Oxidize	No

Section X – Special Protection Information

Respiratory Protection	Not needed
Ventilation:	
Local exhaust	Needed
Protective clothing	Safety glasses, neoprene or rubber gloves.

Section XI – Environmental Data

Environmental Toxicity Data	None
Spill or Leak Procedures	Contain, collect and dispose of
Waste Disposal Method	Per Local, State and Federal Regulations.
Container Disposal	Per Local, State and Federal Regulations.

Section XII – Shipping Data

D.O.T Proper Shipping Name	None
Hazardous Substance 49 CFR CERCLA	None
D.O.T Hazard Class	Not Regulated
D.O.T Labels Required	No
D.O.T Placards Required	No
Poison Constituent	No
Bill of Lading Description	Super Flow SF – 55
Packing group	None
UN/NA Code	Non Hazardous

XIII – Supplier Information

While Custom Chemical Formulators believes the statements set forth herein are accurate as of the date hereof, Custom Chemical Formulators makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.