

SAFETY DATA SHEET

SDS REVISION DATE: June 4, 2015

Product ID: GMS1406A

GMS Industrial Supply, Inc. 212 Denn Lane, Virginia Beach, VA 23462 (855) GRN-OGER

24-Hour Emergency Telephone: 1-800-424-9300 CHEMTREC

1. Identification	
Product number	GMS1406A
Product identifier	Full Contact 2
Company information	GMS Industrial Supply Inc. 212 Denn Lane Virginia Beach VA 23462
Company phone	757-473-1467
Emergency telephone US	CHEMTREC 1-800-424-9300

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CLEANER None known.

Version #	
Recommended use	
Recommended restrictions	

2. Hazard(s) identification

Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements Gases under pressure Acute toxicity, inhalation Not classified. Not classified.



Compressed gas Category 4

Signal word Warning Contains gas under pressure; may explode if heated. Harmful if inhaled. Hazard statement Precautionary statement Prevention Avoid breathing gas. Use only outdoors or in a well-ventilated area. Response If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Protect from sunlight. Store in a well-ventilated place. Storage Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal Hazard(s) not otherwise None known. classified (HNOC) Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Trans-1,2-dichloroethylene		156-60-5	40 - 60
1,1,1,2-Tetraflouroethane		811-97-2	20 - 40
Methyl Nonafluorobutyl Ether		163702-07-6	2.5 - 10
Methyl Nonafluoroisobutyl Ether		163702-08-7	2.5 - 10
Other components below reportable levels			10 - 20

Other components below reportable levels

*Designates that a 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. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
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.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	Contents under pressure.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.	
Specific methods	Cool containers exposed to flames with water until well after the fire is out.	
6. Accidental release measures		
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. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. 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	

Methods and materials for containment and cleaning up

Environmental precautions

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. Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and

open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.
Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. 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. Ground and bond containers when transferring material. Do not re-use empty containers. Avoid breathing gas. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol.
	Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. 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

US. ACGIH Threshold Limit V	US. ACGIH Threshold Limit Values		
Components	Туре	Value	
Trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	200 ppm	
US. Workplace Environmenta	I Exposure Level (WEEL) Guides		
Components	Туре	Value	
1,1,1,2-Tetraflouroethane (CAS 811-97-2)	TWA	4240 mg/m3	
		1000 ppm	
Methyl Nonafluorobutyl Ether (CAS 163702-07-6)	TWA	750 ppm	
Methyl Nonafluoroisobutyl Ether (CAS 163702-08-7)	TWA	750 ppm	
Biological limit values	No biological exposure limits noted for the	ne ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	If contact is likely, safety glasses with sig	de shields are recommended.	
Hand protection	Wear appropriate chemical resistant glo	ves.	
Skin protection			
Other	Wear suitable protective clothing.		
Respiratory protection	If permissible levels are exceeded use N air-supplied respirator.	IIOSH mechanical filter / organic vapor cartridge or an	
Thermal hazards	Wear appropriate thermal protective clot	thing, when necessary.	
General hygiene considerations		rve good personal hygiene measures, such as washing ating, drinking, and/or smoking. Routinely wash work nove contaminants.	
9. Physical and chemical properties			

Appearance	
Physical state	Gas.
Form	Aerosol. Compressed gas.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.

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Flash point	None. Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas) Upper/lower flammability or explos		
Flammability limit - lower	6.7 % estimated	
(%)		
Flammability limit - upper (%)	13.7 % estimated	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	744.8 °F (396 °C) estimated	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Specific gravity	0.364 estimated	
10. Stability and reactivity		
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reactions	Hazardous polymerization does not occur.	
Conditions to avoid	Contact with incompatible materials.	
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition products	No hazardous decomposition products are known.	
11. Toxicological information		
Information on likely routes of exp	osure	
Ingestion	Expected to be a low ingestion hazard.	
Inhalation	Harmful if inhaled.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	
Information on toxicological effects	5	
Acute toxicity	Harmful if inhaled.	
Skin corrosion/irritation	Not applicable.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	

Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not likely, due to the form of the product.	
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

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Ecotoxicity	Harmful to aquatic life with long lasting effects.	
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Partition coefficient n-octanol / water (log Kow)		
1,1,1,2-Tetraflouroethane	1.274	
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	Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
US RCRA Hazardous Waste	U List: Reference
Trans-1,2-dichloroethylene (CAS 156-60-5) U079	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport information

D	тс	
	UN number	UN1950
	UN proper shipping name	Aerosols, non-flammable, (each not exceeding 1 L capacity)
	Transport hazard class(es)	
	Class	2.2
	Subsidiary risk	-
	Label(s)	2.2
	Packing group	Not applicable.
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
	Packaging exceptions	306
	Packaging non bulk	None
	Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

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UN number	UN1950
UN proper shipping name	Aerosols, non-flammable
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	2L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.2
Subsidiary risk	
Label(s)	2.2
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

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15. Regulatory information

re. regulatory mormation					
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Haz Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.	ard Communication			
TSCA Section 12(b) Export N	otification (40 CFR 707, Subpt. D)				
Not regulated. CERCLA Hazardous Substan	ce List (40 CFR 302.4)				
Trans-1,2-dichloroethyler					
SARA 304 Emergency releas	. ,				
Not regulated. OSHA Specifically Regulated Not listed.	Substances (29 CFR 1910.1001-1050)				
	therization Act of 1096 (SADA)				
Superfund Amendments and Reat Hazard categories	Immediate Hazard - Yes				
	Delayed Hazard - No Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No				
SARA 302 Extremely hazardo Not listed.	us substance				
SARA 311/312 Hazardous chemical	No				
SARA 313 (TRI reporting) Not regulated.					
Other federal regulations					
Clean Air Act (CAA) Section 1	12 Hazardous Air Pollutants (HAPs) List				
Not regulated. Clean Air Act (CAA) Section 1	12(r) Accidental Release Prevention (40 CFR 68.130)				
Not regulated.					
Safe Drinking Water Act (SDWA)	Not regulated.				
US state regulations					
US. Massachusetts RTK - Sul	ostance List				
Trans-1,2-dichloroethylene (CAS 156-60-5) US. New Jersey Worker and Community Right-to-Know Act					
Not listed. US. Pennsylvania Worker and Community Right-to-Know Law					
Trans-1,2-dichloroethyler US. Rhode Island RTK	Trans-1,2-dichloroethylene (CAS 156-60-5) US. Rhode Island RTK				
Trans-1,2-dichloroethyler	e (CAS 156-60-5)				
US. California Proposition 65					
	Vater and Toxic Enforcement Act of 1986 (Proposition 65): This materia sted as carcinogens or reproductive toxins.	l is not known to contain			
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)	Yes			
Canada	Non-Domestic Substances List (NDSL)	No			
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			
Korea	Existing Chemicals List (ECL)	Yes			
New Zealand	New Zealand Inventory	Yes			

Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compor	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

Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

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