



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name 1620 Anti-spatter
Version # 01
Issue date 13-February-2014
Revision date -
Supersedes date -
CAS # Mixture
Product use Protection against weld spatter.
Manufacturer information
Manufacturer/Supplier Harris Products Group
4501 Quality Place
Mason, Ohio 45040 US
custservmason@jwharris.com
Telephone number 513-754-2000
Emergency Telephone Numbers 1-888-609-1762 (US, Canada, Mexico only)
Please quote 333988

2. Hazards Identification

Physical state Liquid.
Appearance Clear, colorless liquid.
Emergency overview WARNING
May be harmful if swallowed. May cause central nervous system effects. Causes skin and eye irritation. Suspect cancer hazard. May cause damage to the liver and kidneys.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.
Eyes Causes eye irritation.
Skin Causes skin irritation.
Inhalation High vapor concentrations are irritating to the eyes, nose, throat, and lungs. Exposure to high concentrations of vapor or mist may result in CNS effects such as headaches, nausea and narcosis.
Ingestion May be harmful if swallowed. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.
Chronic effects Prolonged or repeated exposure may cause liver, kidney, and central nervous system damage.
Signs and symptoms Irritation of eyes and mucous membranes. Skin irritation. Upper respiratory tract irritation. Headaches, dizziness and nausea.
Potential environmental effects The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Methylene chloride	75-09-2	73 - 84
Carbon dioxide	124-38-9	17

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation develops or persists.
Skin contact	Immediately flush thoroughly with water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to an unconscious person. Get medical attention.

Notes to physician

Treat symptomatically. Symptoms may be delayed.

General advice

Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties Material may burn but not ignite readily.

Extinguishing media

Suitable extinguishing media Dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media Water or foam (may cause frothing).

Protection of firefighters

Specific hazards arising from the chemical Heated containers may rupture, explode or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.

Protective equipment and precautions for firefighters Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Wear suitable protective equipment.

Fire fighting

equipment/instructions

Containers close to fire should be removed or cooled with water.

Hazardous combustion products

Product may decompose upon heating to produce phosgene, halogenated compounds, carbon monoxide, and unidentified organic compounds.

6. Accidental Release Measures

Personal precautions

Ensure adequate ventilation. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them. Wear protective clothing as described in Section 8 of this MSDS. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for cleaning up

Collect for salvage or disposal. Collect any released materials with absorbent, non-combustible material into suitable containers. Clean surface thoroughly to remove residual contamination. Should not be released into the environment.

7. Handling and Storage

Handling

Avoid inhalation of vapors/spray and contact with skin and eyes. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment (See Section 8). Observe good industrial hygiene practices.

Storage

Keep container tightly closed and in a well-ventilated place. Keep away from incompatible material. Keep away from food, drink and animal feedingstuffs.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Methylene chloride (CAS 75-09-2)	TWA	50 ppm

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Methylene chloride (CAS 75-09-2)	STEL	125 ppm
	TWA	25 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	PEL	5000 ppm

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3
		30000 ppm
	TWA	9000 mg/m3
Methylene chloride (CAS 75-09-2)	TWA	5000 ppm
		174 mg/m3
		50 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	15000 ppm
	TWA	5000 ppm
Methylene chloride (CAS 75-09-2)	TWA	25 ppm

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Methylene chloride (CAS 75-09-2)	TWA	50 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Methylene chloride (CAS 75-09-2)	TWA	50 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3
		30000 ppm
	TWA	9000 mg/m3
Methylene chloride (CAS 75-09-2)	TWA	5000 ppm
		174 mg/m3
		50 ppm

Mexico. Occupational Exposure Limit Values

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	27000 mg/m ³
	TWA	15000 ppm 9000 mg/m ³ 5000 ppm
Methylene chloride (CAS 75-09-2)	STEL	1740 mg/m ³
	TWA	500 ppm 330 mg/m ³ 100 ppm
Engineering controls	Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Local exhaust is recommended. Shower, hand and eye washing facilities near the workplace are recommended.	
Personal protective equipment		
Eye / face protection	Wear safety glasses with side shields (or goggles).	
Skin protection	Chemical resistant clothing is recommended.	
Respiratory protection	If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical & Chemical Properties

Appearance	Clear, colorless liquid.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Characteristic odor.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	390 mm Hg
Vapor density	1.9 (Air = 1)
Boiling point	104 °F (40 °C)
Melting point/Freezing point	Not applicable.
Solubility (water)	Soluble in water.
Specific gravity	1.32 (H ₂ O=1)
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	14.5 (Butyl acetate = 1)

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal temperatures and pressures.
Conditions to avoid	Avoid exposing aerosol containers to high temperatures or direct sunlight.
Incompatible materials	Acids, alkalis, oxidizing agents, reactive halogens, or reactive metals.
Hazardous decomposition products	None under normal temperatures and pressures. In the event of fire: See Section 5.
Possibility of hazardous reactions	Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Methylene chloride (CAS 75-09-2)		
Acute		
<i>Oral</i>		
LD50	Rat	1600 mg/kg
Sensitization	Not a skin sensitizer.	
Acute effects	May be harmful if swallowed. Exposure to high concentrations of vapor or mist may result in CNS effects such as headaches, nausea and narcosis.	
Local effects	Components of the product may be absorbed into the body through the skin. Causes skin and eye irritation.	
Chronic effects	Prolonged or repeated exposure may cause toxic effects to the central nervous system. Repeated or prolonged exposure to high concentrations may cause kidney and liver damage.	
Carcinogenicity	Suspect cancer hazard - may cause cancer.	
ACGIH Carcinogens		
Methylene chloride (CAS 75-09-2)		A3 Confirmed animal carcinogen with unknown relevance to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity		
Methylene chloride (CAS 75-09-2)		2B Possibly carcinogenic to humans.
US NTP Report on Carcinogens: Anticipated carcinogen		
Methylene chloride (CAS 75-09-2)		Reasonably Anticipated to be a Human Carcinogen.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Methylene chloride (CAS 75-09-2)		Cancer
Epidemiology	No data available.	
Mutagenicity	No data available.	
Reproductive effects	May adversely affect the developing fetus based on animal data.	
Further information	Symptoms may be delayed.	

12. Ecological Information

Ecotoxicological data

Components	Species	Test Results
Methylene chloride (CAS 75-09-2)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 1250 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 140.8 - 277.8 mg/l, 96 hours
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
Persistence and degradability	Not available.	
Bioaccumulation / Accumulation		
Bioaccumulative potential		
Octanol/water partition coefficient log Kow		
Methylene chloride (CAS 75-09-2)		1.25
Mobility in environmental media	The product is soluble in water.	

13. Disposal Considerations

Waste codes

US RCRA Hazardous Waste U List: Reference

Methylene chloride (CAS 75-09-2) U080

Disposal instructions Dispose of contents/container in accordance with all local, State and Federal regulations.

Waste from residues / unused products Dispose in accordance with all local, state and federal regulations.

14. Transport Information

DOT

Basic shipping requirements:

UN number	UN1950
Proper shipping name	AEROSOLS
Hazard class	2.2
Subsidiary hazard class	6.1
Additional information:	
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

2.2, 6.1

IATA

UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.2
Subsidiary class(es)	6.1

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.2
Subsidiary class(es)	6.1

TDG

UN number	UN1950
Proper shipping name	AEROSOLS
Hazard class	2.2
Subsidiary hazard class	6.1
Marine pollutant	No

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Methylene chloride (CAS 75-09-2)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Methylene chloride (CAS 75-09-2) 0.1 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Methylene chloride (CAS 75-09-2) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Methylene chloride: 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes
	Delayed Hazard - Yes
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes
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Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)	Not controlled
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Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status

Controlled

WHMIS classification

D2A - Other Toxic Effects-VERY TOXIC
D2B - Other Toxic Effects-TOXIC

WHMIS labeling**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies 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).

State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Hazardous Substances (Director's): Listed substance

Carbon dioxide (CAS 124-38-9) Listed.
Methylene chloride (CAS 75-09-2) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Methylene chloride (CAS 75-09-2) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Methylene chloride (CAS 75-09-2) Listed: April 1, 1988 Carcinogenic.

US. Massachusetts RTK - Substance List

Carbon dioxide (CAS 124-38-9) Listed.
Methylene chloride (CAS 75-09-2) Listed.

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

Carbon dioxide (CAS 124-38-9)
Methylene chloride (CAS 75-09-2)

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

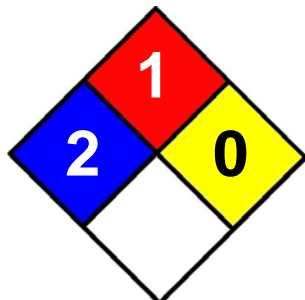
Carbon dioxide (CAS 124-38-9)
Methylene chloride (CAS 75-09-2)

16. Other Information**Further information**

HMIS® is a registered trade and service mark of the NPCA.
A HMIS® Health rating including an * indicates a chronic hazard.

HMIS® ratings

Health: 2*
Flammability: 1
Physical hazard: 0

NFPA Ratings**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.