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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene chloride</td>
<td>75-09-2</td>
<td>73 - 84</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>17</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>30000 ppm</td>
</tr>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td>TWA</td>
<td>5000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>
### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td>STEL</td>
<td>125 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>PEL</td>
<td>5000 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>54000 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>30000 ppm</td>
</tr>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td>TWA</td>
<td>174 mg/m3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>15000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5000 ppm</td>
</tr>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>30000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5000 ppm</td>
</tr>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>30000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5000 ppm</td>
</tr>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>54000 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>30000 ppm</td>
</tr>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td>TWA</td>
<td>174 mg/m3</td>
</tr>
</tbody>
</table>

50 ppm
### Mexico. Occupational Exposure Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>27000 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>9000 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5000 ppm</td>
</tr>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td>STEL</td>
<td>1740 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>330 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

**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 (H2O=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**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1600 mg/kg</td>
</tr>
</tbody>
</table>

**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.

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**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene chloride (CAS 75-09-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna)</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Bioaccumulative potential</th>
<th>Octanol/water partition coefficient log Kow</th>
<th>Methylene chloride (CAS 75-09-2)</th>
<th>1.25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility in environmental media</td>
<td></td>
<td>The product is soluble in water.</td>
<td></td>
</tr>
</tbody>
</table>

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
  Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)
    Not controlled
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

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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.