SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier Boron Carbide
    GHS Product Identifier Boron Carbide
    Chemical Name Mixture (Boron Carbide)
    Trade Name See Product Identifier
    CAS No. Mixture
    EINECS No. Mixture
    REACH Registration No. Not available

1.2 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against
    Application of the substance / the mixture Product Component

1.3 Details Of The Supplier Of The Safety Data Sheet
    Address 1801 Buffalo Avenue
              Niagara Falls, NY 14302
    Telephone (716) 278-6600
    E-Mail (Competent Person) info@washingtonmills.com

1.4 Emergency Telephone Number – ChemTel
    (800)255-3924 (USA/Canada), 813-248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification Of The Substance Or Mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 (CLP)
    The product is not classified as hazardous according to the Globally Harmonized System (GHS).
    The product is not classified as hazardous according to the CLP regulation.

    Information concerning particular hazards for human and environment:
    The product does not have to be labelled due to the calculation procedure of the “General Classification
guideline for preparations of the EU” in the latest valid version.
    Classification system:
    The classification is according to the latest editions of the EU-lists, and extended by company and literature
data.
    The classification is in accordance with the latest editions of international substances lists, and is
supplemented by information from technical literature and by information provided by the company.

2.2 Label Elements

2.2.1 Label Elements According to Regulation (EC) No. 1272/2008 (CLP)
    The product is not classified as hazardous according to OSHA GHS regulations within the United States.
    This product does not have a classification according to the CLP regulation.

    Hazard Pictogram(s) Not regulated. Signal Word(s) Not regulated.
    Hazard- determining components of labelling: None.
    Hazard Statement(s) Not regulated.
    Hazard description: WHMIS- symbols: Not hazardous under WHMIS.
    NFPA ratings (scale 0 - 4) Health = 1 Fire = 0 Reactivity = 0
Boron Carbide (See Page 1)

HMIS-ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>FIRE</td>
<td>REACTIVITY</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS Long Term Health Hazard Substances

None of the ingredients are listed.

2.3 Other Hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components:

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Index Number</th>
<th>Hazard Pictogram(s)</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>iron</td>
<td>≤ 2,5</td>
<td>7439-89-6</td>
<td>231-096-4</td>
<td>NA</td>
<td>None</td>
<td>Substance with a community workplace exposure limit</td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information: No special measures required

After Inhalation: Supply fresh air; consult doctor in case of complaints.

After Skin Contact: Brush off loose particles from skin. Wash with soap and water. If skin irritation is experienced, consult a doctor.

After Eye Contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After Swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

4.2 Most Important Symptoms And Effects, Both Acute And Delayed Hazards

No further relevant information available.

4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed

May be harmful if inhaled. May be harmful if swallowed.

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable Extinguishing Media

None.

5.2 Special Hazards Arising From The Substance Or Mixture

No further relevant information available.
5.3 Advice for Fire-Fighters

Wear self-contained respiratory protective device. Wear fully protective suit.

Additional Information
No further relevant information available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment And Emergency Procedures
Ensure adequate ventilation. Avoid formation of dust. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Towel or mop up material and collect in a suitable container. For a large spill, collect uncontaminated material for possible reuse.

6.2 Environmental Precautions
Do not allow to enter sewers/surface or ground water.

6.3 Methods And Material For Containment And Cleaning Up
Pick up mechanically. Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to item 13.

6.4 Reference To Other Sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions For Safe Handling
Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Use only in well ventilated areas.

Information About Fire – and explosion protection
No special measures required.

7.2 Conditions For Safe Storage, Including Any Incompatibilities:
Store in a cool location. Protect from humidity and water.

Requirements to be Met by Storerooms and Receptacles:
Store away from oxidizing agents. Store away from foodstuffs.

Information About Storage in One Common Storage Facility:
Store in cool, dry conditions in well sealed receptacles.

Further information about storage conditions:
No further relevant information available.

7.3 Specific End Use(s)
No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control Parameters

| Ingredients with limit values that require monitoring at the workplace: |
| Iron | 7439-89-6 | EV (Canada) | Long-term value: 1* 5** mg/m³ as iron; *salts, water-soluble; **welding fume |

DNELs No further relevant information available.
PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure Controls

8.2.2 Personal Protective Equipment:

| General protective and hygienic measures: |
| The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed. |
Safety data sheet
According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

Boron Carbide (See Page 1)

<table>
<thead>
<tr>
<th>Respiratory Protection</th>
<th>Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Protection</td>
<td>Wear safety glasses.</td>
</tr>
<tr>
<td>Protection of Hands</td>
<td>Wear protective gloves.</td>
</tr>
<tr>
<td>Body Protection</td>
<td>Not required under normal conditions of use. Protection may be required for spills.</td>
</tr>
<tr>
<td>Limitation and supervision of exposure into the environment</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>Risk Management Measures</td>
<td>No special requirements.</td>
</tr>
</tbody>
</table>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Granulate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Odourless</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>4262 °F / 2350 °C</td>
</tr>
<tr>
<td>Freezing Point (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not Data</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>Not available</td>
</tr>
<tr>
<td>Temperature (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility (Water)</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition Coefficient (N-Octanol/Water)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

9.2 Other Information

Volatile Organic Chemical (VOC) Content – Not Available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical Stability

Thermal Decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of Hazardous Reactions

Reacts with strong alkali. Reacts with strong oxidising agents.

10.4 Conditions To Avoid

Excessive heat. Store away from oxidizing agents.

10.5 Incompatible Materials

No further relevant information available.

10.6 Hazardous Decomposition Product(s)

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity:
Primary Irritant Effect:
On the skin: Slight irritant effect on skin and mucous membranes.
On the eye: Slight irritant effect on eyes.
Sensitisation: No sensitizing effects known.
Safety data sheet
According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS
Boron Carbide (See Page 1)

Additional toxicological information: The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Acute effects (acute toxicity, irritation, and corrosivity): May be harmful if swallowed. May be harmful if inhaled.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic toxicity: No further relevant information available.

12.2 Persistence and Degradability
No further relevant information available.

12.3 Bioaccumulative Potential
No further relevant information available.

12.4 Mobility in Soil
Additional ecological information:
General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB Assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other Adverse Effects
No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods
Recommendation
Contact manufacturer for recycling information. Must not be disposed together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned Packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Land Transport (ADR/RID) (c)(d)</th>
<th>Land Transport (Within USA) (b)(d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>None</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Not classified as dangerous for transport.</td>
</tr>
<tr>
<td>Transport Hazard Class(es)</td>
<td>None</td>
</tr>
<tr>
<td>Packing Group</td>
<td>None</td>
</tr>
<tr>
<td>Hazard Label(s)</td>
<td>None</td>
</tr>
<tr>
<td>Environmental Hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special Precautions For User</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sea Transport (IMDG) (c)</th>
<th>Air Transport (ICAO/IATA) (c)(d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>None</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Not classified as dangerous for transport.</td>
</tr>
<tr>
<td>Transport Hazard Class(es)</td>
<td>None</td>
</tr>
<tr>
<td>Packing Group</td>
<td>None</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>None</td>
</tr>
<tr>
<td>Special Precautions For User</td>
<td>None</td>
</tr>
</tbody>
</table>
Safety data sheet
According to 1907/2006/EC (REACH), 1272/2008/EC (CLP),
and US GHS

Boron Carbide (See Page 1)

(b) ORM-D may be applicable within the USA for package sizes less than 30kg.
(c) Consult with transport provider.
(d) Check relevant regulations for Special Provisions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

USA

SARA

Section 355 (extremely hazardous substances) None of the ingredients are listed.
SARA 313 (Specific toxic chemical listings) None of the ingredients are listed.
TSCA (Toxic Substance Control Act) All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.
Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Carcinogenic Categories

EPA (Environmental Protection Agency) 12069-32-8 boron carbide I (oral)
7440-42-8 boron I (oral)

IARC (International Agency for Research on Cancer) None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH) None of the ingredients are listed.

MAK (German Maximum Workplace Concentration) None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients are listed.

Canada

Canadian Domestic Substances List (DSL) All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%) None of the ingredients are listed.
Canada Ingredient Disclosure list (limit 1%) None of the ingredients are listed.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57 None of the ingredients are listed.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Additional information:
The accumulation of airborne dust particles may lead to health and safety risks in some cases. The use of good industrial practices will mitigate this risk.

The health risks from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Section 2,4,6,7 and 8 of the SDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.

In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuffs and coal, but may also occur with mineral products. While the majority of our products would be considered non-combustible, the overall airborne environment should be considered when determining the need for mitigation from the potential hazard. Consult recognized experts when necessary in order to determine any possible hazard.

Please read the SDS for specific information concerning these hazards, and contact us with any further questions. We appreciate your continued business.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
Repr. 1B: Reproductive toxicity, Hazard Category 1B

Sources
SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com