Safety data sheet

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

Revision: 06.06.2018

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

1.1 Product Identifier
   CA-20, CA-30, CA-40, CA-60, CA-75, CA-90, CA-95

GHS Product Identifier
   CA-20, CA-30, CA-40, CA-60, CA-75, CA-90, CA-95

Chemical Name
   Mixture (Chrome Alumina)

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
   Company Identification
   Washington Mills
   Address
   1801 Buffalo Avenue
   Niagara Falls, NY 14302
   Telephone
   1-800-828-1666
   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 OSHA GHS regulations within the United States.
   The product is not classified as hazardous according to the CLP regulation.

2.2 Label Elements

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

   Hazard Pictogram(s)
   Not regulated
   Signal Word(s)
   Not Regulated

   Hazard-determining components of labelling:
   None.

   Hazard Statement(s)
   Not Regulated.

   Additional information:
   Safety data sheet available on request.

   Hazard description:
   NFPA ratings (scale 0 - 4)
   Health = 0
   Fire = 0
   Reactivity = 0

   HMIS-ratings (scale 0 - 4)
   Health = 0
   Fire = 0
   Reactivity = 0

   HMIS Long Term Health Hazard Substances
   None of the ingredients are listed.

   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.

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Hazard Pictogram(s)</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichromium Trioxide</td>
<td>50-100</td>
<td>1308-38-9</td>
<td>215-160-9</td>
<td>None</td>
<td>substance with a Community workplace exposure limit</td>
</tr>
<tr>
<td>Aluminum Oxide</td>
<td>25-50</td>
<td>1344-28-1</td>
<td>215-691-6</td>
<td>None</td>
<td>substance with a Community workplace exposure limit</td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed hazard 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
Slight irritant effect on eyes.

4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed
No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
Suitable Extinguishing Agents
Use fire extinguishing methods suitable to surrounding conditions.

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. For large spills, wear protective clothing.

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 receptables. 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.

7.2 Conditions For Safe Storage, Including Any Incompatibilities:
Requirements to be Met by Storerooms and Receptacles:
Store in a cool location.

Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.

Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.

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:

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichromium Trioxide</td>
<td>1308-38-9</td>
<td>Long-term value: 0.5 mg/m³ as Cr</td>
<td>Long-term value: 0.5 mg/m³ as Cr</td>
<td>Long-term value: 0.5 mg/m³ as Cr</td>
<td>Long-term value: 0.5 mg/m³ as Cr</td>
<td>Long-term value: 2 mg/m³ as Cr</td>
</tr>
<tr>
<td>Aluminum Oxide</td>
<td>1344-28-1</td>
<td>PEL (USA) Long-term value: 15*; 15** mg/m³ as Al* Total dust**Respirable fraction</td>
<td>REL (USA) Long-term value: 10* 5** mg/m³ as Al* Total dust**Respirable/ pyro powd./welding f.</td>
<td>TLV (USA) Long-term value: 1 mg/m³ as Al; *as respirable fraction</td>
<td>EL (Canada) Long-term value: 1.0 mg/m³ respirable, as Al</td>
<td>EV (Canada) Long-term value: 10 mg/m³ total dust</td>
</tr>
</tbody>
</table>

- **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
Personal protective equipment:
General protective and hygienic measures:

8.2 Exposure Controls
8.2.2 Personal Protective Equipment:
General protective and hygienic: The usual precautionary measures are to be adhered to when handling chemicals. Immediately remove all soiled and contaminated clothing. Wash
Safety data sheet

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

CA-20, CA-30, CA-40, CA-60, CA-75, CA-90, CA-95 (See Page 1)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Granulate</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Melting Point (°C) /</td>
<td>Not determined</td>
</tr>
<tr>
<td>Freezing Point (°C)</td>
<td></td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>Not determined</td>
</tr>
<tr>
<td>Temperature (°C)</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</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 determined</td>
</tr>
</tbody>
</table>

9.2 Other Information

No further relevant information 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 acids and oxidising agents. Reacts with strong alkali.

10.4 Conditions To Avoid

No further relevant information available.

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: No irritant effect.

Page: 4/7

WASHINGTON MILLS
CA-20, CA-30, CA-40, CA-60, CA-75, CA-90, CA-95 (See Page 1)

On the eye: Slight irritant effect on eyes.
Sensitisation: No sensitizing effects known.
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.
CMR effects (carcinogenicity, mutagenicity, and toxicity for reproduction): Contains suspect carcinogen in less than reportable quantities.

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: Not known to be hazardous to water.

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
Smaller quantities can be disposed of with household waste. Contact waste processors for recycling information. 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>

(b): ORM-D may be applicable within the USA for package sizes less than 30kg.
Safety data sheet
According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

CA-20, CA-30, CA-40, CA-60, CA-75, CA-90, CA-95 (See Page 1)

(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

United States USA

SARA

Section 355 (extremely hazardous substances) None of the ingredients are listed.
SARA 313 (Specific toxic chemical listings) Aluminum oxide listing is only relevant to fibrous forms and is not applicable to the product as supplied.
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) 1308-38-9 dichromium trioxide D,CBD
IARC (International Agency for Research on Cancer) None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH) 1308-38-9 dichromium trioxide A4
MAK (German Maximum Workplace Concentration) 1344-28-1 aluminium oxide A4
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%) All 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.
Safety data sheet

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

CA-20, CA-30, CA-40, CA-60, CA-75, CA-90, CA-95 (See Page 1)

- 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 Abstract 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)

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