

1. Identification

Product Identifier: **Stainless Steel Products (Types 304 and 316)**

Manufacturer:

Hohmann & Barnard, Inc.
30 Rasons Court
Hauppauge, NY 11788
(631) 234-0600
www.h-b.com

Telephone Numbers

During normal business hours call: (800) 645-0616
24-hour emergency call Chemtrec: (800) 255-3924

Recommended use: Various stainless steel products for masonry construction.

Recommended restrictions: None known.

2. Hazards Identification

Description of hazards

Dust and fumes may be generated during working, e.g. during welding, cutting or grinding. Long term over-exposure to air pollutants in the form of dust or fumes may affect health and cause, for instance, chronic bronchitis.

A thin coat of anti-corrosion oil is applied to certain materials. This should be taken into account during handling and working. Heating and working of materials that have been coated with anti-corrosion oil may cause irritating and hygienically harmful fumes. Skin irritation may be caused by repeated or extended contact with anti-corrosion oil.

3. Composition/Information on Ingredients

Material/Component	CAS Number	% Weight	
		TYPE 304	TYPE 316
<u>Alloying Elements</u>			
Carbon (C)	7440-44-0	0.08 max	0.08 max
Manganese (Mn)	7439-96-5	2.0 max	2.0 max
Phosphorous (P)	7723-14-0	0.045 max	0.045 max
Sulfur (S)	7704-34-9	0.030 max	0.030 max
Silicon (Si)	7440-21-3	2.0 max	0.75 max
Chromium (Cr)	7440-47-3	18.0-20.0	18.0-20.0
Nickel (Ni)	7440-02-0	8.0-12.0	8.0-12.0
Molybdenum (Mo)	7439-98-7	0.0	2.0-3.0
Nitrogen (N)	7727-37-9	0.10 max	0.10 max
<u>Base Metal</u>			
Iron (Fe)	7439-89-6	Balance	Balance

NOTE: The above listing is a summary of elements used to alloy stainless steel. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts.

4. First-Aid Measures

Description of Necessary First Aid Measures:

Eye contact: flush eyes with plenty of water for at least 15 minutes. seek medical attention if eye irritation persists.

Skin contact: maintain good personal hygiene. wash affected area with mild soap and water. seek medical attention if skin irritation persists.

Inhalation: remove to fresh air. check for clear airway, breathing and presence of pulse. If necessary administer CPR. Consult a physician immediately.

Ingestion: Rare in industry. dust may irritate mouth and gastrointestinal tract. If ingested, seek medical attention promptly.

Most important symptoms/effects, acute and delayed:

Stainless steel as sold and shipped is not likely to present an acute or chronic health effects. However, during processing (cutting, milling, grinding, melting or welding) emitted byproducts may cause irritations, difficulty in breathing, coughing or wheezing. may cause allergic skin reactions. Indication of immediate medical attention and special treatment needed, if necessary:

Notes to physician: May cause sensitization by skin contact or inhalation. Treat symptomatically.

5. Fire-fighting measures

SUITABLE EXTINGUISHING MEDIA: Non-flammable. Will not support combustion. Not applicable for solid product. Use extinguishers appropriate for surrounding materials.

Do not use water on molten metal.

SPECIFIC HAZARDS ARISING FROM MATERIAL: Not applicable for solid product.

HAZARDOUS COMBUSTION PRODUCTS: At temperatures above the melting point, fumes containing metal oxides and other alloying elements may be liberated.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS:

Firefighters should wear self-contained NIOSH-approved breathing apparatus and full protective clothing.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: None.

SENSITIVITY TO STATIC DISCHARGE: N/A

6. Accidental release measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Not applicable to stainless steel in solid state. Avoid dust formation. Ensure adequate ventilation. Clean-up personnel should be protected against contact with eyes and skin protection.

ENVIRONMENTAL PRECAUTIONS: Not applicable to stainless steel in solid state.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Not applicable to stainless steel in solid state. For spills involving fine dusts, remove by vacuuming or wet sweeping methods to prevent spreading of dust. Avoid inhalation of dusts.

7. Handling and storage

PRECAUTIONS FOR SAFE HANDLING: Not applicable to stainless steel in solid state. Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled as necessary. Practice good housekeeping.

Avoid breathing metal fumes and/or dust.

CONDITIONS FOR SAFE STORAGE: No special storage conditions for stainless steel in solid state.

INCOMPATIBLE PRODUCTS: Store away from acids and incompatible materials.

8. Exposure controls/personal protection

CONTROL PARAMETERS: There are no exposure limits for stainless steel.

The exposure limit for iron-containing fumes has been established at 5 mg/m³ with ACGIH's TWA. The individual complex compounds within the fume may have lower exposure limits than the general fume.

Material/Component	CAS Number	Exposure Limits OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
<u>Alloying Elements</u>			
Carbon (C)	7440-44-0	None Listed	None Listed
Manganese (Mn)	7439-96-5	5.0 as Mn	1.0 as Mn
Phosphorous (P)	7723-14-0	0.1 as P	0.1 as P
Sulfur (S)	7704-34-9	13 (Sulfur Dioxide)	5 (Sulfur Dioxide)
Silicon (Si)	7440-21-3	None Listed	None Listed
Chromium (Cr)	7440-47-3	1.0 as Cr	0.5 as Cr
Nickel (Ni)	7440-02-0	1.0 as Ni	1.0 as Ni
Molybdenum (Mo)	7439-98-7	5.0 Sol. Cmpds	5.0 Sol. Cmpds
Nitrogen (N)	7727-37-9	None Listed	Simple Asphyxiant
<u>Base Metal</u>			
Iron (Fe)	7439-89-6	(Fe ₂ O ₃ Fume)	5 (Fe ₂ O ₃ Fume)

Notes:

- Threshold Limit Values (TLV) established by the American Conference of Governmental Industrial Hygienists (ACGIH 2011) are 8-hour Time Weighted Average concentrations unless otherwise noted.

APPROPRIATE ENGINEERING CONTROLS: Provide general or local exhaust to minimize airborne concentrations during milling, grinding, melting and welding operations.

INDIVIDUAL PROTECTIVE MEASURES: Dependent upon process being performed on material each operation must be addressed for suitable equipment.

GLOVES (Specify): Wear gloves as required EYES (Specify): Safety glasses or goggles as required.

CLOTHING (Specify): N/A FOOTWEAR (Specify): N/A

RESPIRATOR (Specify): If concentrations exceed established limits use NIOSH/MSHA approved particulate respirators (dust & fume or high efficiency dust fume) when grinding or welding.

OTHER (Specify): N/A

9. Physical and chemical properties

PHYSICAL STATE: Solid	APPEARANCE: Silver Grey Metallic (Steel)
ODOR: Not Applicable	ODOR THRESHOLD: Not Applicable
pH: Not Applicable	MELTING POINT: 1530°C (2786°F)
BOILING POINT: Not Applicable	FLASH POINT (°C): N/A
EVAPORATION RATE: Not Applicable	FLAMMIBILITY (solid, Gas): Not flammable
UPPER FLAMMABLE LIMIT %: Not Applicable	LOWER FLAMMABLE LIMIT %: Not Applicable
VAPOUR PRESSURE: Not Applicable	VAPOUR DENSITY: Not Applicable
RELATIVE DENSITY: 7.86	SPECIFIC GRAVITY: No data
SOLUBILITY: Not soluble	PARTITION COEFFICIENT: No data
AUTO-IGNITION TEMP (°C): Not Applicable	DECOMPOSITION TEMPERATURE: No data
VISCOSITY: Not Applicable	
OTHER INFORMATION: Not Applicable	

10. Stability and reactivity

REACTIVITY: Not determined for product in solid form.
CHEMICAL STABILITY: Yes. Steel products are stable under normal storage and handling conditions.
POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization cannot occur.
CONDITIONS TO AVOID: Contact with mineral acids will release flammable hydrogen gas. Dust formation.
INCOMPATIBLE MATERIALS: Yes, strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS: Not Applicable.

11. Toxicological information

LIKELY ROUTES OF ENTRY: None for stainless steel in its natural solid state.
EYES: High concentrations of dust may cause irritation to the eyes.
SKIN: Prolonged skin contact with coated steel may cause skin irritation in sensitive individuals.
INHALATION: Inhalation of metal particulate or elemental oxide fumes generated during welding, burning, grinding or machining may pose acute or chronic health effects.
SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: None for stainless steel in its natural solid state.
EFFECTS OF ACUTE EXPOSURE TO MATERIAL: MANGANESE & COPPER: Inhalation overexposure to manganese or copper (or zinc coated products) may cause metal fume fever characterized by fever and chills (i.e. flu-like symptoms) which appear 4-6 hours after exposure with no long-term effects.
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
CHROMIUM: IARC lists certain hexavalent chromium compounds under its Group 1 category - "confirmed human carcinogens" and metallic chromium under its Group 3 category - "not classifiable as to their carcinogenicity to humans". Chromium metal is classified as carcinogenic by NTP.
NICKEL: IARC lists metallic nickel under its Group 2B category - "possibly carcinogenic to humans". Nickel may cause skin sensitivity
COBALT: Cobalt dust may result in an asthma-like condition (cough, shortness of breath). IARC lists metallic cobalt under its Group 2B category - "possibly carcinogenic to humans".
IRON: Inhalation overexposures may cause a benign pneumoconiosis (siderosis) with few or no symptoms.
MANGANESE: Existing studies are inadequate to assess its carcinogenicity. Susceptible to Parkinson's disease, metal fume fever and kidney damage.
STOT (Single Exposure): No data.
STOT (Repeated Exposures): Respiratory system. Allergic skin reactions.
MUTAGENICITY OF MATERIAL: N/A
REPRODUCTIVE EFFECTS: N/A
TERATOGENICITY OF MATERIAL: N/A
CARCINOGENICITY OF MATERIAL:
CHROMIUM: IARC lists certain hexavalent chromium compounds under its Group 1 category - "confirmed human carcinogens" and metallic chromium under its Group 3 category - "not classifiable as to their carcinogenicity to humans".
NICKEL: IARC lists metallic nickel under its Group 2B category - "possibly carcinogenic to humans".
COBALT: IARC lists metallic cobalt under its Group 2B category - "possibly carcinogenic to humans".
SYNERGISTIC MATERIALS: N/A
ASPIRATION HAZARD: No data.

SENSITIZATION OF MATERIAL: N/A

LD50 (of Material): Not established

LC50 (of Material): Not established

Notes:

- STOT – Specific Target Organ Toxicity
- International Agency for Research on Cancer (IARC) - Summaries & Evaluations (2008).
- 3rd Annual Report on Carcinogens as prepared by the National Toxicology Program (NTP).
- Iron containing welding fume has an exposure limit of 5 mg/m³ (ACGIH-TLV's 2011). Welding fume may also contain contaminants from fluxes or welding consumables. Prolonged skin contact may cause reddening and drying of skin or dermatitis in sensitive individuals due to nickel and/or chromium content in steel.

12. Ecological Information

ECOTOXICITY: No data available for the stainless steel in its natural solid state. However, individual components of the material have been found to be toxic to the environment.

COMPONENT	TOXICITY TO FISH	TOXICITY TO ALGAE	TOXICITY TO MICROORGANISMS
Iron	LC50 Common Carp 96 hr. 0.56 mg/l	-	-
Chromium	LC50 Fathead minnow 96 hr. 10-100 mg/l	-	-
Nickel	LC50 Common Carp 96 hr. 1.3 mg/l	EC50 Freshwater Algae 72 hr. 0.18 mg/l	EC50 Water Flea 48 hr. 1.0 mg/l

PERSISTENCE AND DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available for stainless steel in its natural solid state. Individual metal dusts may migrate into soil and groundwater and be absorbed by plants.

OTHER ADVERSE EFFECTS: None known.

13. Disposal Considerations

WASTE DISPOSAL METHODS: Steel scrap should be recycled whenever possible.

CONTAINER CLEANING & DISPOSAL: Dispose of in accordance with applicable federal, provincial/state or local regulations.

14. Transport information

GENERAL SHIPPING INFORMATION: Stainless steel not regulated for shipping.

SHIPPING NAME AND DESCRIPTION: N/A

UN NUMBER: N/A

HAZARD CLASS: N/A

PACKING GROUP/RISK GROUP: N/A

TRANSPORT REGULATIONS:

Canadian Transportation of Dangerous Goods Regulations (TDG) March 2011.

US Department of Transport (DOT) Hazardous Materials shipping information (Title 49 - Transportation March 2011).

15. Regulatory Information

REGULATORY INFORMATION: The following listing of regulations relating to a Russel Metals Inc. product may not be complete and should not be solely relied upon for all regulatory compliance responsibilities.

ADDITIONAL CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: Class D2A/D2B: Materials Causing Other Toxic Effects.

DOMESTIC SUBSTANCES LIST: The components of this material are on the federal DSL Inventory.

OTHER CANADIAN REGULATIONS: N/A

ADDITIONAL U.S. REGULATIONS:

SARA: The components of this material are subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA – Oct. 2006).

SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this material. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs. (4,540 kg) therefore applies, per 40 CFR 370.20.

TSCA INVENTORY STATUS: The components of this material are listed on the Toxic Substances Control Act Inventory.

CERCLA REPORTABLE QUANTITY (RQ): RQ's for Hazardous Substances in the Comprehensive Environmental Response, Compensation, and Liability Act are: Chromium = 5000 lb. (2270 kg); Copper = 5000 lb. (2270 kg); Nickel = 100 lb. (45 kg).

CALIFORNIA (PROPOSITION 65): The Chromium (VI) component of this material is known in the State of California to cause cancer.

The Nickel component of this material is known in the State of California to cause cancer.

The Cobalt component of this material is known in the State of California to cause cancer.

OTHER U.S. FEDERAL REGULATIONS: N/A.

ADDITIONAL EUROPEAN UNION REGULATIONS:

RoHS & WEEE: This MSDS follows the European Union Directive "Restriction on the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment" (2002/95/EC) and the "Waste Electrical and Electronic Equipment (WEEE)" Directive (2002/96/EC).

Lead (Pb): Lead is not intentionally added to stainless steel however, it may exist in trace levels. Although not analyzed, lead levels in steel are typically well below the EU Directive limit of 0.1%. Note, the EU Directive has a lead exemption limit of up to 0.35% as an alloying element in steel.

Chromium VI (Cr +6): The hexavalent oxidation state of chromium does not normally exist as part of a metal or alloy.

16. Other information

Issue Date: May 31, 2015

Revision Date: May 31, 2015

Disclaimer: All information, recommendations, and suggestions appearing herein concerning this product are taken from sources or based upon data believed to be reliable. Although reasonable care has been taken in the preparation of this information, Hohmann & Barnard extends no warranties or guarantees, express or implied, makes no representations, and assumes no responsibility as to the accuracy, reliability or completeness of the information presented. Since the actual use of the product described herein is beyond our control, POSCO assumes no liability arising out of the use of the product by others. It is the user's responsibility to determine the suitability of the information presented herein, to assess the safety and toxicity of the product under their own conditions of use, and to comply with all applicable laws and regulations. Appropriate warnings and safe handling procedures should be provided to handlers and users.

1. Identification

Product Identifier: **#341 Round Weep Holes, PTA Tubes & Plastic Termination Bar – Pellets Rigid Vinyl Compound**

Manufacturer:

Hohmann & Barnard, Inc.
30 Rasons Court
Hauppauge, NY 11788
(631) 234-0600
www.h-b.com

Telephone Numbers

During normal business hours call: (800) 645-0616

24-hour emergency call Chemtrec: (800) 255-3924

2. Hazards Identification

In pelletized form rigid PVC compounds present no known acute or chronic health hazards. Routes of entry via skin, inhalation or ingestion are improbable. If ingestion should occur consult a physician.

If thermal degradation of the PVC should occur, exposure to the resulting hydrogen chloride fumes should be minimized. Direct exposure to sufficient quantities of hydrogen chloride may cause breathing difficulties. Move the individual to fresh air and provide appropriate first aid. Exposure to large quantities of hydrogen chloride may result in acute and/or chronic health problems. Treatment by a physician is recommended. In smaller quantities, hydrogen chloride is primarily an irritant to the eyes, mucous membranes and skin. Washing the skin with soap and water and flushing the eyes with clean, cool water is usually sufficient. If the irritation persists, see a physician.

3. Composition/Information on Ingredients

Rigid PVC compounds may contain one or more of the following ingredients that by themselves may be considered "hazardous" .

Organometallic Stabilizers Titanium Dioxide

Acrylic Polymers/Styrenic Polymers

Inorganic Fillers

Pigments

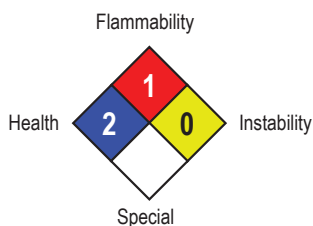
Note that use of the word "hazardous" is as required and defined in the OSHA Hazard Communication Standard (20 CFR1 910, 1200) and does not necessarily imply that the materials are hazardous of the levels and/or in the physical forms used.

The exact compositions of Prime PVC rigid PVC formulations are "Trade Secrets", as defined in section (1) of the above standard. If more detailed information is required, please contact Hohmann& Barnard, Inc .

Hazardous Material
Information System (HMIS)

Health	2
Flammability	1
Physical Hazard	0
Personal Protection	

National Fire Protection
Association (NFPA)



HMIS & NFPA Hazard Rating Legend

* = CHRONIC HEALTH HAZARD
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

4. First-Aid Measures

Ingestion: Consult physician.

5. Fire-fighting measures

Rigid PVC compounds are self-extinguishing and will not support combustion. When exposed to sufficient heat from other burning materials, the compounds may thermally decompose. See Section 10 below.

If PVC compounds are present in a fire lighting situation, use of a NIOSH approved self-contained breathing apparatus with a full face mask is required. Fire fighting procedures may include the use of water spray, fog or foam, dry chemicals or carbon dioxide. However the presence of other materials and/or equipment in the area should be considered in selecting an appropriate fire fighting medium.

6. Accidental release measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep or vacuum immediately to avoid slips and falls.

WASTE DISPOSAL METHODS: Landfill disposal.

CLEAN WATER ACT REQUIREMENTS: No data found.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS: No data found.

7. Handling and storage

Because of the physical form of the pelletized PVC compound spilled material should be swept or vacuumed up immediately to avoid slips and falls .

Rigid PVC pellets would not normally be considered "Hazardous Waste" and therefore could be disposed of via landfill, the user is responsible for complying with federal, state and local disposal regulations. If the material is supplied in boxes, or bags, the material should be stored in a sprinkled area, since the containers themselves may be combustible.

In addition, safe stacking practices should be observed. Stacking boxes or pelletized bags more than two layers high is not recommended.

8. Exposure controls/personal protection

ENGINEERING CONTROLS: No data found.

ADMINISTRATIVE CONTROLS: No data found.

PERSONAL PROTECTIVE EQUIPMENT

Not required under normal circumstances, however industrial hygiene practices suggest that gloves and/or safety glasses be used in the workplace, especially if working with hot PVC Polymer.

VENTILATION

No data found

9. Physical and chemical properties

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: N/A

Appearance and Odor: Roughly cylindrical pellets or beads with no appreciable odor .

Specific Gravity: 1.30-1.50

Melting Point: 300°F

Evaporation Rate: N/A

% Volatiles: Nil

10. Stability and reactivity

Materials to Avoid: acetal or acetal copolymers in elevated temperature processing equipment.

Under normal conditions, rigid PVC compounds are quite stable and inert. When materials based on PVC resin are exposed to heat for a period of time, they may thermally decompose. The onset of decomposition is accelerated by higher temperatures (e.g. above 400°F). Such thermal decomposition will produce primarily hydrogen chloride gas plus smaller quantities of carbon monoxide, carbon dioxide and smoke.

Hydrogen Chloride is an extremely hygroscopic acid gas. That means it will dissolve instantly in any available water, including perspiration, tears or saliva to form hydrochloric acid. Exposure to small amounts of hydrogen chloride will cause irritation of the skin, eyes and the membranes in the mouth and nose, Exposure to large quantities of hydrogen chloride can cause disruption of breathing due to displacement of oxygen and to the body's instinctive suppression of the inhalation reflex.

If thermal degradation should occur, use of a NIOSH approved self-contained breathing apparatus with a full face mask is required for any employees exposed to the hydrogen chloride will be minimized by isolating any material that has begun to degrade and then cooling it by any practical means, including water spray.

Mechanical ventilation should be used to clear enclosed spaces of fumes.

11. Toxicological information

ROUTES OF ENTRY: Inhalation

TARGET ORGANS: eyes, mucous membranes and skin

CARCINOGENICITY: No data found.

12. Ecological Information

No data found.

13. Disposal Considerations

Follow state and local regulations.

14. Transport information

No data found.

15. Regulatory Information

No data found.

16. Other information

Issue Date: May 31, 2015

Revision Date: May 31, 2015

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The information contained herein is based on current knowledge and experience; no responsibility is accepted and that the information is sufficient or correct in all cases. Users should consider this data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customer, and the protection of the environment.

1. Identification

Product Identifier: **Primer SA™ – Water-Based Primer for ALL H&B Self-Adhesive Flashings**

Manufacturer:

Hohmann & Barnard, Inc.
30 Rasons Court
Hauppauge, NY 11788
(631) 234-0600
www.h-b.com

Telephone Numbers

During normal business hours call: (800) 645-0616

24-hour emergency call Chemtrec: (800) 255-3924

2. Hazards Identification

Avoid contact with skin and eyes, if ingested treat symptomatically and contact a physician. May cause asthmatic response in persons with asthma who are sensitive to airway irritation.

POTENTIAL HEALTH EFFECTS:

Inhalation: Persons with asthma or extremely sensitive airways may experience irritation.

Skin & Eyes: Irritant

Ingestion: Harmful

Carcinogenicity: Not Listed

GHS Ratings:

Oral Toxicity: Acute 4

Skin Irritation: Category 2

Eye Irritation: Category 2

Respiratory Sensitisation: 1B

GHS Hazards:

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

GHS Precautions:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

P321 Specific treatment (see section 4).

P330 Rinse mouth.

P362 Take off contaminated clothing and wash before reuse.

P301+P312

IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

P302+P352

IF ON SKIN: wash with plenty of soap and water.

P304+P341

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313

IF SKIN irritation occurs: Get medical advice/attention.

P337+P313

IF eye irritation persists: Get medical advice/attention.

P342+P311

IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container to Federal, State and Local Regulation.

Signal Word: Danger



3. Composition/Information on Ingredients

No hazardous ingredients listed

Specific chemical identity and percentage content of ingredients withheld as trade secret pursuant to Massachusetts regulations. Reporting requirements of section 313 title III of the superfund amendments and reauthorization act of 1986 and 10 CFR part 373 apply.

4. First-Aid Measures

EYES: Flush with pure water for 15 minutes.

SKIN: Wash with pure water.

INGESTION: Contact Physician

5. Fire-fighting measures

FLASH POINT: None

FLAMMABLE LIMITS (%): N/A

EXTINGUISHING MEDIA: For dry polymer use water or carbon dioxide

FIRE AND EXPLOSION HAZARD: There are no unusual fire or explosion hazards

6. Accidental release measures

EMERGENCY SPILL CONTACT: CHEMTREC 800-424-9300

SMALL SPILL: Soak spill up with an absorbent (sawdust, floor absorbent, etc). Transfer to a container. Wash area with soap and water.

LARGE SPILL: Contain spill. Use an absorbent to soak up material. Transfer material and all other supplies used to contain the spill into a container. Wash area with soap and water.

TOTE OR DRUM LEAK: Transfer contents to a clean, dry, sealed container. If material is recovered without contamination, it may be used. If material is contaminated, dispose of in accordance with Federal, State, and Local environmental control regulation. Incineration is the preferred method.

WASTE DISPOSAL METHODS: Follow Federal, State and Local regulations.

CLEAN WATER ACT REQUIREMENTS: No data found

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS: No data found

7. Handling and storage

Do not allow to freeze as coagulation will occur. **See section 8 for protection measures before coming into contact with this product.**

8. Exposure controls/personal protection

ENGINEERING CONTROLS: No data found

ADMINISTRATIVE CONTROLS: No data found

PERSONAL PROTECTIVE EQUIPMENT

PROTECTIVE GLOVES: Rubber protective gloves are recommended.

EYE PROTECTION: Use safety goggles when splash potential exists.

RESPIRATORY PROTECTION (SPECIFIC TYPE): Not necessary for brush/roller applications. If applying with spray equipment, use particulate filter and ventilation.

WORK/ HYGIENIC PRACTICES: Normal cleanliness- store in cool place- minimize contact with air.

VENTILATION

Provide sufficient ventilation to maintain airborne concentrations below the exposure guideline.

9. Physical and chemical properties**BOILING POINT:** Approx. 100°C**SPECIFIC GRAVITY:** Greater Than 1.0 of Water**VAPOR PRESSURE (mm Hg):** No data found**SOLUBILITY IN WATER:** Infinite**REACTIVITY IN WATER:** N/A**MELTING POINT:** N/A**APPEARANCE:** White Milky Liquid**ODOR:** Pleasant Odor**10. Stability and reactivity****STABILITY:** Stable**CONDITIONS TO AVOID:** Do Not Freeze**HAZARDOUS DECOMPOSITION PRODUCTS:** No Data**HAZARDOUS POLYMERIZATION:** Will Not Occur**11. Toxicological information****ROUTES OF ENTRY:** Eyes, Skin, Ingestion**TARGET ORGANS:** Airways/Digestive Tract**OVEREXPOSURE:** May cause asthmatic response in persons with asthma who are sensitive to airway irritation.**CARCINOGENICITY:** None**12. Ecological Information**

No data found.

13. Disposal Considerations

Follow all Federal, State, and Local regulations.

14. Transport information

No data found.

15. Regulatory Information

No data found.

16. Other information

Issue Date: May 31, 2015

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1. Identification

Product Identifier: **Quadro-Vent**

Manufacturer:

Hohmann & Barnard, Inc.
30 Rasons Court
Hauppauge, NY 11788
(631) 234-0600
www.h-b.com

Telephone Numbers

During normal business hours call: (800) 645-0616

24-hour emergency call Chemtrec: (800) 255-3924

2. Hazards Identification

Product not classified as a hazardous chemical as defined in OSHA 1910.1200 Appendix A.

Specific chemical identity and percentage content of ingredients withheld as trade secret pursuant to Massachusetts regulations. Reporting requirements of section 313 title III of the superfund amendments and reauthorization act of 1986 and 10 CFR part 373 apply.

3. Composition/Information on Ingredients

Component	% (WT or VOL)	ACGIH TWA (Units)	ACGIH STEL (Units)	OSHA PEL (Units)
Polypropylene Copolymer		No Data Found		

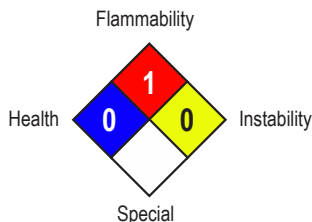
Product not classified as a hazardous chemical as defined in OSHA 1910.1200 Appendix A.

Specific chemical identity and percentage content of ingredients withheld as trade secret pursuant to Massachusetts regulations. Reporting requirements of section 313 title III of the superfund amendments and reauthorization act of 1986 and 10 CFR part 373 apply.

Hazardous Material
Information System (HMIS)

National Fire Protection
Association (NFPA)

Health	0
Flammability	1
Physical Hazard	0
Personal Protection	



HMIS & NFPA Hazard Rating Legend

* = CHRONIC HEALTH HAZARD

0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

4. First-Aid Measures

SKIN: Wash contaminated area with soap and water.

EYES: Wash the eyes with clean water.

INHALATION: Not considered a risk.

INGESTION: Not considered a risk.

NOTES TO PHYSICIANS/FIRST AID PROVIDERS: No data found.

5. Fire-fighting measures

FLASH POINT: 824°F (440°C)

EXTINGUISHING MEDIA: Water, foam, dry powder, carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS: No data found.

FIRE FIGHTING PROCEDURES: No data found.

FIRE FIGHTER PROTECTION: No data found.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product does not constitute an explosion hazard but will burn in the event of fire.

6. Accidental release measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up.

WASTE DISPOSAL METHODS: Wastes should be burned in a suitable incinerator or recycle.

CLEAN WATER ACT REQUIREMENTS: No data found

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS: No data found

7. Handling and storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: No data found.

OTHER PRECAUTIONS: No data found.

REGISTRATIONS/CERTIFICATIONS: Not hazardous or restricted item under these regulations.

8. Exposure controls/personal protection

ENGINEERING CONTROLS: No data found

ADMINISTRATIVE CONTROLS: No data found

PERSONAL PROTECTIVE EQUIPMENT

Not required

VENTILATION

Not required

9. Physical and chemical properties

Physical Form: Solid

Appearance: Solid, granulated

Color: Natural

Boiling Point: No data found

Melting Point: 347°F(175°C)

Freezing Point: No data found

Specific Gravity: 0.9 g/cm3

Density: No data found

Bulk Density: No data found

Viscosity: No data found

pH: No data found

Water Solubility: Insoluble

Solvent Solubility: No data found

Partition Coefficient-Octanol / Water: No data found

Molecular Weight: No data found

Decomposition Temp.: No data found

Taste: No data found

Odor: None

Odor Threshold: No data found

Vapor Pressure: Non-volatile

Vapor Density: No data found

Evaporation Rate: N/A

VOC (Weight): No data found

VOC (Volume): No data found

Volatiles (Weight): No data found

Volatiles (Volume): No data found

Flash Point: 824°F (440°C)

Flash Point Test: No data found

Upper Explosion Limit: No data found

Lower Explosion Limit: No data found

Auto Ignition: No data found

Flammability (Solid, Gas): No data found

10. Stability and reactivity

STABILITY: Stable.

HAZARDOUS DECOMPOSITION: Oxides of carbon.

HAZARDOUS POLYMERIZATION: No data found.

CONDITIONS TO AVOID: Keep away from strong oxidizing agents.

INCOMPATIBLE MATERIALS: No data found.

11. Toxicological information

ROUTES OF ENTRY: Skin, eyes.

TARGET ORGANS: No data found.

EFFECTS OF OVEREXPOSURE: Non hazardous and non toxic material.

CARCENOGENICTY: Non hazardous and non toxic material.

12. Ecological Information

No data available for this product.

13. Disposal Considerations

Wastes should be burned in a suitable incinerator or recycle.

14. Transport information

Not hazardous or restricted item under these regulations.

15. Regulatory Information

Not hazardous or restricted item under these regulations.

16. Other information

Issue Date: May 31, 2015

Revision Date: May 31, 2015

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is taken from sources or based upon data believed to be reliable; however, Hohmann & Barnard, Inc. disclaims any warranty, express or implied, as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may be required under particular conditions.

The information contained herein is based on current knowledge and experience; no responsibility is accepted and that the information is sufficient or correct in all cases. Users should consider this data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customer, and the protection of the environment.



SAFETY DATA SHEET

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: SEALMASTIC™ TROWEL-MASTIC™ DAMPPROOFING **Part Number:** 6330055
Manufacturer: W. R. Meadows®, Inc. **Address:** 300 Industrial Drive
Hampshire, Illinois 60140
Telephone: (847) 214-2100 **In case of emergency, dial** (800) 424-9300 (CHEMTREC)
Revision Date: 9/9/2014
Product Use: Dampproofing for Concrete

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS
[Health] |1|
[Flammability] |2|
[Reactivity] |0|
[Personal Protection] | |

HAZARD STATEMENTS

WARNING!
Causes skin/eye irritation.
Flammable liquid and vapor.
Harmful if inhaled.
May be fatal if ingested and enters airway.

PRECAUTIONARY STATEMENTS:

Use only in well-ventilated areas.
Avoid breathing vapors and direct contact.
Store in well-ventilated location.
Wear appropriate personal protective equipment.
Control vapors in confined spaces utilizing mechanical ventilation.



SECTION 3: HAZARDS COMPONENTS

<u>Chemical Name:</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>SARA 313</u>	<u>Vapor Pressure (mm Hg@20°C)</u>	<u>LEL (@25°C)</u>
1. Mineral Spirits	64742-47-8	15-35	No	2.6	0.75
2. Petroleum Asphalt	8052-42-4	40-70	No	N/A	N/A

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313." *N/A: Not Applicable*

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water for fifteen (15) minutes. If symptoms persist, seek medical attention.
SKIN CONTACT: Wash affected areas with mild soap and water. Remove contaminated shoes/clothing. If symptoms persist, seek medical attention.
INHALATION: If respiratory symptoms develop, move affected individual from exposure source and into fresh air. If symptoms persist, seek medical attention.
INGESTION: Dilute with liquid unless the victim is unconscious or very drowsy. Do not induce vomiting. If vomiting spontaneously occurs, prevent lung aspiration. Seek immediate medical attention.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: 100 degrees F
EXTINGUISHING MEDIA: Water fog, foam, dry chemical.
CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, oxides/compounds of nitrogen/sulfur, and incomplete combustion products.
PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Use appropriate personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Avoid direct contact. Remove ignition sources. Dike and contain spilled material. Remove source of spill if safe to do so. Apply absorbent and place clean-up material in sealed/marked containers for proper disposal.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact.
SAFE STORAGE: Keep containers closed when not in use. Keep away from ignition sources.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Chemical Name:</u>	<u>OSHA</u>				<u>ACGIH</u>			
	<u>PEL</u>	<u>PEL/CEILING</u>	<u>PEL/STEL</u>	<u>SKIN</u>	<u>TWA</u>	<u>TLV/CEILING</u>	<u>TLV/STEL</u>	<u>SKIN</u>
1. Mineral Spirits	100 ppm	500 ppm	N/E	No	100 ppm	N/E	200 ppm	N/E
2. Petroleum Asphalt	5 mg/m ³ *	N/E	N/E	No	5 mg/m ³ *	N/E	N/E	N/E

N/E: Not Established

*: Asphalt Fumes

ENGINEERING CONTROLS: Use with adequate ventilation. Use explosion-proof equipment.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves.

SAFETY DATA SHEET

Date of Preparation: 9/9/2014

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6330055

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 325 degrees F **VAPOR DENSITY:** >1 (air=1) **% VOLATILE BY VOLUME:** N/E
EVAPORATION RATE: <1 (Ether=1) **pH LEVEL:** N/E **% VOLATILE BY WEIGHT:** N/E
WEIGHT PER GALLON: 10.00 **PRODUCT APPEARANCE:** Black Paste **VOC CONTENT:** 221 g/L

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. **HAZARDOUS POLYMERIZATION:** Will not occur.
CONDITIONS AND MATERIALS TO AVOID: Oxidizing agents, strong acids, and strong alkalis.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide, oxides/compounds of nitrogen/sulfur and incomplete combustion products.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild to moderate irritation. Product vapors/mists may also cause irritation.
SKIN CONTACT: Direct contact may cause slight skin irritation. Prolonged/repeated contact may result in irritation/dermatitis.
INHALATION: Exposure may cause irritation of the nose, throat, respiratory tract, and other mucous membranes. Exposure to excessive vapor concentrations may cause signs of transient central nervous system depression (headache, fatigue, drowsiness, dizziness, loss of coordination).
INGESTION: May result in irritation of the gastrointestinal tract. Ingestion of excessive quantities may result in symptoms of transient central nervous system depression as noted above.
SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function. Symptoms of transient central nervous system depression include: headache, fatigue, drowsiness, dizziness, and loss of coordination.
AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to this product.
OTHER HEALTH EFFECTS: Some asphalts may possess weak carcinogenic activity. Occasional skin contact with petroleum asphalt is not expected to have serious health effects as long as good personal hygiene measures are followed.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E **DEGRADABILITY:** N/E **BIOACCUMULATIVE POTENTIAL:** N/E
SOIL MOBILITY: N/E **OTHER ADVERSE EFFECTS:** None recognized.

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Fuel blending/recycling facility. Product is a hazardous waste (D001).

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT (Domestic Land Transportation).
UN NUMBER: None. **HAZARD CLASS:** N/A **PACKING GROUP:** N/A
UN PROPER SHIPPING NAME: N/A
ENVIRONMENTAL HAZARDS: None recognized.
BULK TRANSPORTATION INFORMATION: None.
SPECIAL PRECAUTIONS: None.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 9/9/2014
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



SAFETY DATA SHEET

Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: SEALMASTIC™ TYPES I, II, III **Part Number:** 6350055
Manufacturer: W. R. Meadows®, Inc. **Address:** 300 Industrial Drive
Hampshire, Illinois 60140
Telephone: (847) 214-2100 **In case of emergency, dial (800) 424-9300 (CHEMTREC)**
Revision Date: 9/9/2014
Product Use: Dampproofing Product

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS
[Health] | 1 |
[Flammability] | 1 |
[Reactivity] | 0 |
[Personal Protection] | |

HAZARD STATEMENTS
WARNING!
Causes skin irritation.

PRECAUTIONARY STATEMENTS
Avoid direct contact.



SECTION 3: HAZARDS COMPONENTS

Chemical Name:	CAS Number	% by Weight	SARA 313	Vapor Pressure (mm Hg@20°C)	LEL (@25°C)
1. Petroleum Asphalt	8052-42-4	35-40	No	N/A	N/A
2. Clay	1302-78-9	10-15	No	N/A	N/E

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313." N/A = Not Applicable

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water for fifteen (15) minutes. If symptoms persist, seek medical attention.
SKIN CONTACT: Wash affected areas with mild soap and water.
INHALATION: Not expected to be an exposure route as supplied. If respiratory symptoms develop, seek medical attention.
INGESTION: Dilute with liquid unless the victim is unconscious or very drowsy. Do not induce vomiting. If vomiting spontaneously occurs, prevent lung aspiration. Seek immediate medical attention.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: Product will not flash due to water content.
EXTINGUISHING MEDIA: Water fog, foam, dry chemical.
CHEMICAL/COMBUSTION HAZARDS: Oxides and compounds of nitrogen/sulfur, carbon monoxide/dioxide, and incomplete combustion products.
PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Use appropriate personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Avoid direct contact. Dike and contain spilled material. Remove source of spill if safe to do so. Apply absorbent and place clean-up material in sealed/marked containers for proper disposal. Clean-up materials will be classified as non-hazardous waste.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact.
SAFE STORAGE: Prevent product from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name:	OSHA				ACGIH			
	PEL	PEL/CEILING	PEL/STEL	SKIN	TLV	TLV/CEILING	TLV/STEL	SKIN
1. Petroleum Asphalt	5 mg/m ³ *	N/E	N/E	No	0.5 mg/m ³ *	N/E	N/E	N/E
2. Clay	15 mg/m ³ +	N/E	N/E	No	10 mg/m ³ +	N/E	N/E	N/E

*: Asphalt Fumes +: Total Dust, 5 mg/m³ Respirable Fraction N/E: Not Established

ENGINEERING CONTROLS: None required under normal use conditions.
PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical resistant gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212 degrees F **VAPOR DENSITY:** N/A **% VOLATILE BY VOLUME:** N/A
EVAPORATION RATE: <1 (Ether=1) **pH LEVEL:** N/A **% VOLATILE BY WEIGHT:** 50
WEIGHT PER GALLON: 9.0 **PRODUCT APPEARANCE:** Black Liquid **VOC CONTENT:** 0 g/L

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. **HAZARDOUS POLYMERIZATION:** Will not occur.
CONDITIONS AND MATERIALS TO AVOID: None recognized.
HAZARDOUS DECOMPOSITION PRODUCTS: None recognized.

SAFETY DATA SHEET

Date of Preparation: 9/9/14

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SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild irritation.**SKIN CONTACT:** Direct contact may cause slight skin irritation. Prolonged/repeated contact may result in irritation.**INHALATION:** Not anticipated to be an exposure route.**INGESTION:** Not anticipated to be an exposure route.**SIGNS AND SYMPTOMS:** Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function.**AGGRAVATED MEDICAL CONDITIONS:** Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to this product.**OTHER HEALTH EFFECTS:** ACGIH Classifies asphalt as *Not Classifiable as a Human Carcinogen; A4*.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E**DEGRADABILITY:** N/E**BIOACCUMULATIVE POTENTIAL:** N/E**SOIL MOBILITY:** N/E**OTHER ADVERSE EFFECTS:** None Recognized

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Solidified product can be landfill disposed. No free liquids.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.**UN NUMBER:** None.**HAZARD CLASS:** N/A**PACKING GROUP:** N/A**UN PROPER SHIPPING NAME:** N/A**ENVIRONMENTAL HAZARDS:** None recognized.**BULK TRANSPORTATION INFORMATION:** None.**SPECIAL PRECAUTIONS:** Prevent product from freezing.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 9/9/2014**PREPARED BY:** Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.

1. Identification

Product Identifier: **Mortar Trap™**

General Category: Walls

Manufacturer:

Hohmann & Barnard, Inc.
30 Rasons Court
Hauppauge, NY 11788
(631) 234-0600
www.h-b.com

Telephone Numbers

During normal business hours call: (800) 645-0616
24-hour emergency call Chemtrec: (800) 255-3924

2. Hazards Identification

EMERGENCY OVERVIEW:

This product is not expected to produce unusual hazards during normal use. Direct contact may irritate skin, or eyes. Due to the products physical nature, no significant hazards are associated with this product.

POTENTIAL HEALTH EFFECTS(See Section 11 for more information)

ACUTE:

- | | |
|------------|--|
| Inhalation | Inhalation unlikely, but can burn due to fire creating a dense toxic smoke. Severe over exposure may result in nausea, headache, chills, and fever. Consult a physician. |
| Eyes | Direct Contact may cause irritation of eyes. If burning, itching, or pain develop, consult a physician. |
| Skin | Direct contact may cause no more than slight irritation. Unless caught on fire, causing possible severe thermal burns. |
| Ingestion | There are no known health effects due to ingestion. Due to the physical nature of the product, ingestion is very unlikely. |

CHRONIC:

- | | |
|------------|--|
| Inhalation | None Known. |
| Eyes | None Known. |
| Skin | Direct, Repeated rubbing may cause irritation to the skin. |
| Ingestion | None Known. |

TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.

CLASSIFICATION OF INGREDIENT(S): All substances listed are associated with the nature of raw materials used to create this product. Which are not independent components of the products formulation. All substances, if present, are at levels below regulatory limits. See section 11: Toxicology for details.

POTENTIAL ENVIRONMENTAL EFFECTS: This product has no effect on the ecology. Unless ignited.

3. Composition/Information on Ingredients

MATERIAL	WT%	CAS #
Polycaprolactam (Nylon-6)	100	25038-54-4

4. First-Aid Measures

PROCEDURES

- | | |
|------------|---|
| Inhalation | Leave area of exposure, and relocate to fresh air. Remain away from area until coughing and other symptoms subside. If conditions warrant, contact a physician. |
| Eyes | If exposed to eyes, do not rub or itch. To prevent further mechanical irritation, flush thoroughly with water for 20-30 minutes, or till irritation subsides. |
| Skin | Wash with warm water and soap. If irritation persists, consult a physician. |
| Ingestion | Product is not intended to be ingested or eaten. If eaten seek medical attention. |

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing skin diseases, rashes, and dermatitis.

5. Fire-fighting measures

Extinguishing Media

Water spray & foam. Water is the best extinguishing medium. Carbon dioxide & dry chemicals are not recommended because of their lack of cooling, and re-ignition.

Fire Fighting Procedures	Fire fighters and others exposed, wear self-contained breathing apparatus and protective clothing.		
Hazardous Combustion Products	Intense heat, dense black smoke, carbon monoxide, carbon dioxide, & hydrocarbon fragments.		
Flash Point :	400°C	Auto Ignition:	Not Applicable
Method Used:	Not Established	Flammability Classification :	Not Established
Upper Flammable Limit:	Not Established	Rate Of Burning:	Not Established
Lower Flammable Limit:	Not Established		

6. Accidental release measures

CONTAINMENT:	No precautions. Wear appropriate personal protective equipment when handling. See section 8.
CLEAN-UP:	Use normal clean up procedures. Sweep or gather material to minimize slipping hazards.
DISPOSAL:	Follow local, state, provincial and federal regulations on disposing of the product. Recycling is encouraged. Dispose in landfill or by incineration.

7. Handling and storage

HANDLING:	Follow recommendations on label and in the processing guide for the product. Prevent contact with skin and eyes. Use good industrial hygiene practices. Secondary operations such as grinding, sanding and sawing may produce a dust explosion hazard. Use bonding, grounding, venting and explosion relief provisions in accordance with accepted engineering practices.
STORAGE:	Store in a dry place away from moisture, excessive heat and sources of ignition. Avoid storage near foods to prevent food contamination.

8. Exposure controls/personal protection

ENGINEERING CONTROLS: A continuous supply of fresh air to the workplace with the removal of processing fumes through exhaust systems is recommended. Processing fume condensate may be a fire hazard and toxic. Remove periodically from exhaust hoods, ductwork and other surfaces using appropriate personal protection. Refer to **Hazards Identifications** for information. For powders and residual dusts, refer to Handling and Storage section.

VENTILATION REQUIREMENTS: Must be locally determined to limit exposure to materials at their point of use. Design techniques and guidelines may be found in publications such as industrial ventilation.

PERSONAL PROTECTIONS:

Eye/Face:	Wear safety glasses with side shield or chemical goggles. In addition, use full-face shield when cleaning processing fume condensates from hood, ducts, and other surfaces.
Skin:	Avoid prolonged or repeated contact with material. When melting product, wear long pants, long sleeves, insulated gloves, and face protection when applicable. Use protective clothing, including chemical resistant gloves, to prevent any contact with processing fume condensates.
Respiratory:	When processing fumes are not controlled, use approved protection from organic vapors and acid gases. When dust or powder from secondary operations, such as grinding, sanding, and sawing is not controlled, use respiratory approved equipment for protection against dust.

9. Physical and chemical properties

Appearance:	Sheets	Vapor Density (Air=1):	Not Applicable
Odor:	Slight Odor	Specific Gravity (H ₂ O=1):	1.10 - 1.50
Odor Threshold:	Not Determined	Solubility in water (g/100g):	Insoluble
Physical State:	Solid	Partition Coefficient:	Not Applicable
pH @ 25°C:	Not Applicable	Auto-ignition Temp:	Not Determined
Melting Point:	205°C	Decomposition Temp:	Not Determined
Freezing Point:	Not Determined	Viscosity:	Not Applicable
Boiling Point:	Not Applicable	Particle Size:	Not Applicable
Flash Point:	375°C	Bulk Density:	Not Determined
Evaporation Rate (BuAc=1):	Not Applicable	Molecular Weight:	Mixture
Upper Flammable Limit (UFL):	Not Determined	VOC Content:	Not Determined
Lower Flammable Limit (LFL):	Not Determined	Percent Volatile:	Zero
Vapor Pressure (mm Hg):	Not Applicable		

10. Stability and reactivity

STABILITY:	Stable under recommended conditions of storage and handling.
REACTIVITY:	Not reactive under recommended conditions of storage, handling, processing and usage.
CONDITIONS TO AVOID:	Do not exceed melt temperature recommendations in products literature.
HAZARDOUS POLYMERIZATION:	None Known.
HAZARDOUS DECOMPOSITION:	Processing fumes evolved at recommended processing conditions may include trace levels of ethylbenzene, arcolein, acetaldehyde, acetophenone, cumene, and other lower molecular weight hydrocarbon fragments.

11. Toxicological information

ACUTE EFFECTS: Direct contact may cause eye and/or skin irritation. No signs of toxicity due to inhalation.

CHRONIC EFFECTS/CARCINOGENICITY: Direct, repeated rubbing with contact of the skin may cause slight irritation.

CARBON BLACK: These product contain less than 0.03% carbon black. Any exposure to carbon black is expected to remain below OSHA regulations and ACGIH recommended limits during normal handling and use of this product. The national Institute of Occupational Safety and Health criteria document on carbon black recommends that only carbon black with .1% will be considered suspect of carcinogens.

12. Ecological Information

ENVIRONMENTAL TOXICITY: Not expected to present any significant ecological problems.

ECOTOXICITY VALUE: Not Determined

13. Disposal Considerations

WASTE DISPOSAL METHOD: Recycling is encouraged. Disposal in landfill or by incineration in accordance with federal, state, and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification. Do not dump into any sewers, on the ground, or into any body of water.

14. Transport information

U.S DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not regulated.

Shipping Name :	Hohmann & Barnard Mortar Trap™
Hazard Class:	Not classified
UN/NA #:	Not listed
Packing Group:	None
Label(s) required:	Not applicable
RID/ADR:	None
ADNR:	None

15. Regulatory Information

Listed below are chemical substances subject to supplier notification requirements. The percentages, when present, represent average values.

TSCA Status: This Product complies with the Chemical Substances Inventory requirements of the US EPA Toxic Substances Control Act (TSCA)

WHMIS Classification D2

If any components in this product are known to the State of California to cause cancer and are reproductive hazards they are listed below.

16. Other information

This material may contain commercially available pigments, dyes, or colorants. These colorants are typically added at concentrations of <5%, but may be added in concentrations as high as 10% **USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.

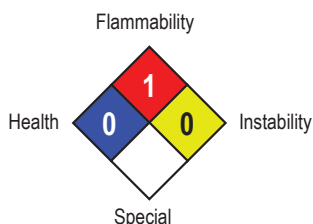
Issue Date: May 31, 2015

Revision Date: May 31, 2015

Hazardous Material
Information System (HMIS)

Health	0
Flammability	1
Physical Hazard	0
Personal Protection	B

B- Safety Glasses and
Gloves

National Fire Protection
Association (NFPA)

HMIS & NFPA Hazard Rating Legend

* = CHRONIC HEALTH HAZARD
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is taken from sources or based upon data believed to be reliable; however, Hohmann & Barnard, Inc. disclaims any warranty, express or implied, as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may be required under particular conditions.

The information contained herein is based on current knowledge and experience; no responsibility is accepted and that the information is sufficient or correct in all cases. Users should consider this data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customer, and the protection of the environment.

1. Identification

Product Identifier: **Stainless Steel Products (Types 304 and 316)**

Manufacturer:

Hohmann & Barnard, Inc.
30 Rasons Court
Hauppauge, NY 11788
(631) 234-0600
www.h-b.com

Telephone Numbers

During normal business hours call: (800) 645-0616
24-hour emergency call Chemtrec: (800) 255-3924

Recommended use: Various stainless steel products for masonry construction.

Recommended restrictions: None known.

2. Hazards Identification

Description of hazards

Dust and fumes may be generated during working, e.g. during welding, cutting or grinding. Long term over-exposure to air pollutants in the form of dust or fumes may affect health and cause, for instance, chronic bronchitis.

A thin coat of anti-corrosion oil is applied to certain materials. This should be taken into account during handling and working. Heating and working of materials that have been coated with anti-corrosion oil may cause irritating and hygienically harmful fumes. Skin irritation may be caused by repeated or extended contact with anti-corrosion oil.

3. Composition/Information on Ingredients

Material/Component	CAS Number	% Weight TYPE 304	TYPE 316
<u>Alloying Elements</u>			
Carbon (C)	7440-44-0	0.08 max	0.08 max
Manganese (Mn)	7439-96-5	2.0 max	2.0 max
Phosphorous (P)	7723-14-0	0.045 max	0.045 max
Sulfur (S)	7704-34-9	0.030 max	0.030 max
Silicon (Si)	7440-21-3	2.0 max	0.75 max
Chromium (Cr)	7440-47-3	18.0-20.0	18.0-20.0
Nickel (Ni)	7440-02-0	8.0-12.0	8.0-12.0
Molybdenum (Mo)	7439-98-7	0.0	2.0-3.0
Nitrogen (N)	7727-37-9	0.10 max	0.10 max
<u>Base Metal</u>			
Iron (Fe)	7439-89-6	Balance	Balance

NOTE: The above listing is a summary of elements used to alloy stainless steel. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts.

4. First-Aid Measures

Description of Necessary First Aid Measures:

Eye contact: flush eyes with plenty of water for at least 15 minutes. seek medical attention if eye irritation persists.

Skin contact: maintain good personal hygiene. wash affected area with mild soap and water. seek medical attention if skin irritation persists.

Inhalation: remove to fresh air. check for clear airway, breathing and presence of pulse. If necessary administer CPR. Consult a physician immediately.

Ingestion: Rare in industry. dust may irritate mouth and gastrointestinal tract. If ingested, seek medical attention promptly.

Most important symptoms/effects, acute and delayed:

Stainless steel as sold and shipped is not likely to present an acute or chronic health effects. However, during processing (cutting, milling, grinding, melting or welding) emitted byproducts may cause irritations, difficulty in breathing, coughing or wheezing. may cause allergic skin reactions. Indication of immediate medical attention and special treatment needed, if necessary:

Notes to physician: May cause sensitization by skin contact or inhalation. Treat symptomatically.

5. Fire-fighting measures

SUITABLE EXTINGUISHING MEDIA: Non-flammable. Will not support combustion. Not applicable for solid product. Use extinguishers appropriate for surrounding materials.

Do not use water on molten metal.

SPECIFIC HAZARDS ARISING FROM MATERIAL: Not applicable for solid product.

HAZARDOUS COMBUSTION PRODUCTS: At temperatures above the melting point, fumes containing metal oxides and other alloying elements may be liberated.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS:

Firefighters should wear self-contained NIOSH-approved breathing apparatus and full protective clothing.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: None.

SENSITIVITY TO STATIC DISCHARGE: N/A

6. Accidental release measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Not applicable to stainless steel in solid state. Avoid dust formation. Ensure adequate ventilation. Clean-up personnel should be protected against contact with eyes and skin protection.

ENVIRONMENTAL PRECAUTIONS: Not applicable to stainless steel in solid state.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Not applicable to stainless steel in solid state. For spills involving fine dusts, remove by vacuuming or wet sweeping methods to prevent spreading of dust. Avoid inhalation of dusts.

7. Handling and storage

PRECAUTIONS FOR SAFE HANDLING: Not applicable to stainless steel in solid state. Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled as necessary. Practice good housekeeping.

Avoid breathing metal fumes and/or dust.

CONDITIONS FOR SAFE STORAGE: No special storage conditions for stainless steel in solid state.

INCOMPATIBLE PRODUCTS: Store away from acids and incompatible materials.

8. Exposure controls/personal protection

CONTROL PARAMETERS: There are no exposure limits for stainless steel.

The exposure limit for iron-containing fumes has been established at 5 mg/m³ with ACGIH's TWA. The individual complex compounds within the fume may have lower exposure limits than the general fume.

Material/Component	CAS Number	Exposure Limits OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
<u>Alloying Elements</u>			
Carbon (C)	7440-44-0	None Listed	None Listed
Manganese (Mn)	7439-96-5	5.0 as Mn	1.0 as Mn
Phosphorous (P)	7723-14-0	0.1 as P	0.1 as P
Sulfur (S)	7704-34-9	13 (Sulfur Dioxide)	5 (Sulfur Dioxide)
Silicon (Si)	7440-21-3	None Listed	None Listed
Chromium (Cr)	7440-47-3	1.0 as Cr	0.5 as Cr
Nickel (Ni)	7440-02-0	1.0 as Ni	1.0 as Ni
Molybdenum (Mo)	7439-98-7	5.0 Sol. Cmpds	5.0 Sol. Cmpds
Nitrogen (N)	7727-37-9	None Listed	Simple Asphyxiant
<u>Base Metal</u>			
Iron (Fe)	7439-89-6	(Fe ₂ O ₃ Fume)	5 (Fe ₂ O ₃ Fume)

Notes:

- Threshold Limit Values (TLV) established by the American Conference of Governmental Industrial Hygienists (ACGIH 2011) are 8-hour Time Weighted Average concentrations unless otherwise noted.

APPROPRIATE ENGINEERING CONTROLS: Provide general or local exhaust to minimize airborne concentrations during milling, grinding, melting and welding operations.

INDIVIDUAL PROTECTIVE MEASURES: Dependent upon process being performed on material each operation must be addressed for suitable equipment.

GLOVES (Specify): Wear gloves as required EYES (Specify): Safety glasses or goggles as required.

CLOTHING (Specify): N/A FOOTWEAR (Specify): N/A

RESPIRATOR (Specify): If concentrations exceed established limits use NIOSH/MSHA approved particulate respirators (dust & fume or high efficiency dust fume) when grinding or welding.

OTHER (Specify): N/A

9. Physical and chemical properties

PHYSICAL STATE: Solid	APPEARANCE: Silver Grey Metallic (Steel)
ODOR: Not Applicable	ODOR THRESHOLD: Not Applicable
pH: Not Applicable	MELTING POINT: 1530°C (2786°F)
BOILING POINT: Not Applicable	FLASH POINT (°C): N/A
EVAPORATION RATE: Not Applicable	FLAMMIBILITY (solid, Gas): Not flammable
UPPER FLAMMABLE LIMIT %: Not Applicable	LOWER FLAMMABLE LIMIT %: Not Applicable
VAPOUR PRESSURE: Not Applicable	VAPOUR DENSITY: Not Applicable
RELATIVE DENSITY: 7.86	SPECIFIC GRAVITY: No data
SOLUBILITY: Not soluble	PARTITION COEFFICIENT: No data
AUTO-IGNITION TEMP (°C): Not Applicable	DECOMPOSITION TEMPERATURE: No data
VISCOSITY: Not Applicable	
OTHER INFORMATION: Not Applicable	

10. Stability and reactivity

REACTIVITY: Not determined for product in solid form.
CHEMICAL STABILITY: Yes. Steel products are stable under normal storage and handling conditions.
POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization cannot occur.
CONDITIONS TO AVOID: Contact with mineral acids will release flammable hydrogen gas. Dust formation.
INCOMPATIBLE MATERIALS: Yes, strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS: Not Applicable.

11. Toxicological information

LIKELY ROUTES OF ENTRY: None for stainless steel in its natural solid state.
EYES: High concentrations of dust may cause irritation to the eyes.
SKIN: Prolonged skin contact with coated steel may cause skin irritation in sensitive individuals.
INHALATION: Inhalation of metal particulate or elemental oxide fumes generated during welding, burning, grinding or machining may pose acute or chronic health effects.
SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: None for stainless steel in its natural solid state.
EFFECTS OF ACUTE EXPOSURE TO MATERIAL: MANGANESE & COPPER: Inhalation overexposure to manganese or copper (or zinc coated products) may cause metal fume fever characterized by fever and chills (i.e. flu-like symptoms) which appear 4-6 hours after exposure with no long-term effects.
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
CHROMIUM: IARC lists certain hexavalent chromium compounds under its Group 1 category - "confirmed human carcinogens" and metallic chromium under its Group 3 category - "not classifiable as to their carcinogenicity to humans". Chromium metal is classified as carcinogenic by NTP.
NICKEL: IARC lists metallic nickel under its Group 2B category - "possibly carcinogenic to humans". Nickel may cause skin sensitivity
COBALT: Cobalt dust may result in an asthma-like condition (cough, shortness of breath). IARC lists metallic cobalt under its Group 2B category - "possibly carcinogenic to humans".
IRON: Inhalation overexposures may cause a benign pneumoconiosis (siderosis) with few or no symptoms.
MANGANESE: Existing studies are inadequate to assess its carcinogenicity. Susceptible to Parkinson's disease, metal fume fever and kidney damage.
STOT (Single Exposure): No data.
STOT (Repeated Exposures): Respiratory system. Allergic skin reactions.
MUTAGENICITY OF MATERIAL: N/A
REPRODUCTIVE EFFECTS: N/A
TERATOGENICITY OF MATERIAL: N/A
CARCINOGENICITY OF MATERIAL:
CHROMIUM: IARC lists certain hexavalent chromium compounds under its Group 1 category - "confirmed human carcinogens" and metallic chromium under its Group 3 category - "not classifiable as to their carcinogenicity to humans".
NICKEL: IARC lists metallic nickel under its Group 2B category - "possibly carcinogenic to humans".
COBALT: IARC lists metallic cobalt under its Group 2B category - "possibly carcinogenic to humans".
SYNERGISTIC MATERIALS: N/A
ASPIRATION HAZARD: No data.

SENSITIZATION OF MATERIAL: N/A

LD50 (of Material): Not established

LC50 (of Material): Not established

Notes:

- STOT – Specific Target Organ Toxicity
- International Agency for Research on Cancer (IARC) - Summaries & Evaluations (2008).
- 3rd Annual Report on Carcinogens as prepared by the National Toxicology Program (NTP).
- Iron containing welding fume has an exposure limit of 5 mg/m³ (ACGIH-TLV's 2011). Welding fume may also contain contaminants from fluxes or welding consumables. Prolonged skin contact may cause reddening and drying of skin or dermatitis in sensitive individuals due to nickel and/or chromium content in steel.

12. Ecological Information

ECOTOXICITY: No data available for the stainless steel in its natural solid state. However, individual components of the material have been found to be toxic to the environment.

COMPONENT	TOXICITY TO FISH	TOXICITY TO ALGAE	TOXICITY TO MICROORGANISMS
Iron	LC50 Common Carp 96 hr. 0.56 mg/l	-	-
Chromium	LC50 Fathead minnow 96 hr. 10-100 mg/l	-	-
Nickel	LC50 Common Carp 96 hr. 1.3 mg/l	EC50 Freshwater Algae 72 hr. 0.18 mg/l	EC50 Water Flea 48 hr. 1.0 mg/l

PERSISTENCE AND DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available for stainless steel in its natural solid state. Individual metal dusts may migrate into soil and groundwater and be absorbed by plants.

OTHER ADVERSE EFFECTS: None known.

13. Disposal Considerations

WASTE DISPOSAL METHODS: Steel scrap should be recycled whenever possible.

CONTAINER CLEANING & DISPOSAL: Dispose of in accordance with applicable federal, provincial/state or local regulations.

14. Transport information

GENERAL SHIPPING INFORMATION: Stainless steel not regulated for shipping.

SHIPPING NAME AND DESCRIPTION: N/A

UN NUMBER: N/A

HAZARD CLASS: N/A

PACKING GROUP/RISK GROUP: N/A

TRANSPORT REGULATIONS:

Canadian Transportation of Dangerous Goods Regulations (TDG) March 2011.

US Department of Transport (DOT) Hazardous Materials shipping information (Title 49 - Transportation March 2011).

15. Regulatory Information

REGULATORY INFORMATION: The following listing of regulations relating to a Russel Metals Inc. product may not be complete and should not be solely relied upon for all regulatory compliance responsibilities.

ADDITIONAL CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: Class D2A/D2B: Materials Causing Other Toxic Effects.

DOMESTIC SUBSTANCES LIST: The components of this material are on the federal DSL Inventory.

OTHER CANADIAN REGULATIONS: N/A

ADDITIONAL U.S. REGULATIONS:

SARA: The components of this material are subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA – Oct. 2006).

SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this material. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs. (4,540 kg) therefore applies, per 40 CFR 370.20.

TSCA INVENTORY STATUS: The components of this material are listed on the Toxic Substances Control Act Inventory.

CERCLA REPORTABLE QUANTITY (RQ): RQ's for Hazardous Substances in the Comprehensive Environmental Response, Compensation, and Liability Act are: Chromium = 5000 lb. (2270 kg); Copper = 5000 lb. (2270 kg); Nickel = 100 lb. (45 kg).

CALIFORNIA (PROPOSITION 65): The Chromium (VI) component of this material is known in the State of California to cause cancer.

The Nickel component of this material is known in the State of California to cause cancer.

The Cobalt component of this material is known in the State of California to cause cancer.

OTHER U.S. FEDERAL REGULATIONS: N/A.

ADDITIONAL EUROPEAN UNION REGULATIONS:

RoHS & WEEE: This MSDS follows the European Union Directive "Restriction on the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment" (2002/95/EC) and the "Waste Electrical and Electronic Equipment (WEEE)" Directive (2002/96/EC).

Lead (Pb): Lead is not intentionally added to stainless steel however, it may exist in trace levels. Although not analyzed, lead levels in steel are typically well below the EU Directive limit of 0.1%. Note, the EU Directive has a lead exemption limit of up to 0.35% as an alloying element in steel.

Chromium VI (Cr +6): The hexavalent oxidation state of chromium does not normally exist as part of a metal or alloy.

16. Other information

Issue Date: May 31, 2015

Revision Date: May 31, 2015

Disclaimer: All information, recommendations, and suggestions appearing herein concerning this product are taken from sources or based upon data believed to be reliable. Although reasonable care has been taken in the preparation of this information, Hohmann & Barnard extends no warranties or guarantees, express or implied, makes no representations, and assumes no responsibility as to the accuracy, reliability or completeness of the information presented. Since the actual use of the product described herein is beyond our control, POSCO assumes no liability arising out of the use of the product by others. It is the user's responsibility to determine the suitability of the information presented herein, to assess the safety and toxicity of the product under their own conditions of use, and to comply with all applicable laws and regulations. Appropriate warnings and safe handling procedures should be provided to handlers and users.

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EMAIL: moreinfo@sandellmfg.com | www.diedrichtechnologies.com

202V VANA-STOP NEW MASONRY CLEANER

1. PRODUCT DATA

Date of Preparation: March 1, 2015

Product Name: 202V Vana-Stop New Masonry Cleaner

Producer: Diedrich Technologies, A Hohmann & Barnard Company, 310 Wayto Road, Schenectady, NY 12303

Company Contact: Mike Eglin

Telephone: 800-283-3888

24-Hour Emergency Contact: CHEMTREC 800-424-9300

This product is manufactured for Commercial/Industrial use. Not recommended for: Household use.

2. HAZARDS IDENTIFICATION

GHS Ratings:

Oral Toxicity: Acute Tox. 5

Anticipated oral LD50 between 2000 and 5000 mg/kg;
Indication of significant effect in humans; Any mortality at class 4; Significant clinical signs at class 4

Inhalation Toxicity: Acute Tox. 1

Gases <=100ppm, Vapors <=0.5mg/l, Dusts & mists <=0.05mg/l

Skin corrosive: 1A

Destruction of dermal tissue: Exposure < 3 min.
Observation <1 hour, visible necrosis in at least one animal

Eye corrosive: 1

Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

Respiratory sensitizer: 1

Carcinogen: 1B

Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity

Reproductive toxin: 2

Human or animal evidence possibly with other information

GHS Hazards:

- H303** May be harmful if swallowed
- H314** Causes severe skin burns and eye damage
- H318** Causes serious eye damage
- H330** Fatal if inhaled
- H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled

H350 May cause cancer

H361 Suspected of damaging fertility or the unborn child

GHS Precautions

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash skin thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/protective clothing/eye protection/face protection

P281 Use personal protective equipment as required

P284 Wear respiratory protection

P285 In case of inadequate ventilation wear respiratory protection

P310 Immediately call a POISON CENTER or doctor/physician

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P320 Specific treatment is urgent (see section 4)

P321 Specific treatment (see section 4)

P363 Wash contaminated clothing before reuse

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P304+P341

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

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P308+P313

IF exposed or concerned: Get medical advice/attention

P342+P311

Call a POISON CENTER or doctor/physician

P405 Store locked up**P403+P233**

Store in a well ventilated place. Keep container tightly closed

P501 Dispose of contents/container according to local regulations**Danger****3. COMPOSITION**

Chemical Name/ CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Hydrochloric Acid 7647-01-0 20 percent		2 ppm Ceiling	NIOSH: 5 ppm Ceiling; 7 mg/m3 Ceiling
Sulfuric acid 7664-93-9 0.9 percent	1 mg/m3 TWA	0.2 mg/m3 TWA (thoracic fraction)	NIOSH: 1 mg/m3 TWA

4. FIRST AID MEASURES

Inhalation: Remove from further exposure. For those providing assistance, avoid exposure to yourself. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, a trained individual should attempt to resuscitate while getting immediate medical aid.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.

Skin Contact: In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

Ingestion: If conscious, give 2 to 3 glasses of water. Do not induce vomiting and seek medical attention immediately.

Notes to Physician: No data found.

5. FIRE FIGHTING MEASURES

Flammable Limits: LEL & UEL – N/A

Flash Point: No data available.

Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Unusual Fire or Explosion Hazards: No data available.

Hazardous Combustion Products: See Section 10 for a list of hazardous decomposition products for this mixture.

Fire Fighting: If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

Fire Fighting: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Stop leak if you can do it without risk, stay upwind, and avoid run off to waterways and sewers.

SMALL SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Dike to collect large liquid spills, collect leaking liquid in saleable compatible containers.

ACID SPILLS: Neutralize with Soda Ash, (Sodium Carbonate) Hydrated Lime, (Calcium Hydroxide) or Baking Soda (Sodium Bicarbonate). Cautiously neutralize remainder. Then wash away with plenty of water.

7. HANDLING AND STORAGE

Handling Precautions: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containment closed when not in use. Do not handle or store material near heat, sparks, or open flames, or other sources of ignition.

Storage: Prevent from freezing. Store at room temperatures, i.e., 40° to 95°F (4° to 35°C)

Regulatory Requirements: No data found

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8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Chemical Name/ CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Hydrochloric Acid 7647-01-0		2 ppm Ceiling	NIOSH: 5 ppm Ceiling; 7 mg/m3 Ceiling
Sulfuric acid 7664-93-9	1 mg/m3 TWA	0.2 mg/m3 TWA (thoracic fraction)	NIOSH: 1 mg/m3 TWA

Engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

Ventilation Control: Provide adequate ventilation to control airborne concentration below the exposure guidelines/limits.

Administrative controls: No data found.

Personal Protection: As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard Assessment of all workplaces to determine the need for proper protective equipment for each employee.

Eye Protection: Normal industrial eye protection practices should be employed.

Skin Protection: In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory: If airborne concentration limits are not met, an approved respirator must be worn.

Contaminated Equipment: Dispose of the waste in compliance with federal, state, regional, and local regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point: Not Determined

Freezing point: Not Determined

Solubility: Complete

Boiling range: 85°C

Flash point: 999°C, 999°F

Evaporation rate: Not Determined

Flammability: Not Determined

Appearance: Yellow

Odor: Pungent

Physical State: Liquid

Vapor Pressure: Not Determined

Odor threshold: Not Determined

Vapor Density: Not Determined

pH: Strong Acid <1

Explosive Limits: 0%

Partition coefficient (n-Octanol/water): Not Determined

Autoignition temperature: N/A

Decomposition temperature: Not Determined

Viscosity: Not Determined

Density: 1.153324666

10. STABILITY AND REACTIVITY

Stability: STABLE

Incompatibilities: Avoid contact with strong bases.

Hazardous Decomposition Products: *Note:* these are all possible decomposition products based on molecular structure of components.

- Hydrogen Chloride
- Chlorine or Oxides of Chlorine
- Oxides of Sulfur
- Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity:

Oral Toxicity: 3,424.00mg/kg

Inhalation Toxicity: 0.08mg/L

Component Toxicity:

Routes of entry: No data found.

Target Organs: Eyes, Skin, & Respiratory System

Effects of Overexposure: Causes severe skin burns and eye damage.

CAS No.	Description	% Weight	Carcinogen Rating
7664-93-9	Sulfuric Acid	0.9	Sulfuric acid: IARC: Human carcinogen IARC: Human carcinogen OSHA: listed

12 - ECOLOGICAL INFORMATION

Ecotoxicity: No data available for this product.

Component Ecotoxicity: Sulfuric acid 96 Hr LC50

Brachydanio rerio: >500 mg/L [static]

SECTION 13 - DISPOSAL

Disposal Instructions: Refer to the latest federal, state, and local regulations regarding proper disposal.

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SECTION 14 - TRANSPORTATION INFORMATION

The following is for US DOT Highway transportation. Other modes/jurisdictions may have different classifications.

Agency	Proper Shipping Name	UN Number	Packaging Group	Hazard Class
US DOT	Corrosive Liquid NOS. (Hydrochloric Acid Hydroxyacetic Acid)	UN1760	II	8

SECTION 15 - REGULATORY INFORMATION

This listing is to highlight federal level regulation of the product. Individual states, and other nations may have further regulations not listed below.

US DOT List of Marine Pollutants (172.101 - Appendix B): None

US DOT List of Hazardous Substances and Reportable Quantities (172.101 Appendix A):

7664-93-9 Sulfuric acid 1 %

7647-01-0 Hydrochloric Acid 20 %

US DOT List of Severe Marine Pollutants (172.101 - Appendix B): None

SARA Section 302 Extremely Hazardous Substances (40 CFR 355):

7664-93-9 Sulfuric acid 1 %

7647-01-0 Hydrochloric Acid 20 %

Sara Section 302 Threshold Planning Quantity.

7664-93-9 Sulfuric acid 1 %

7647-01-0 Hydrochloric Acid 20 %

SARA Section 313, Toxic Chemicals (40 CFR 372.65):

7664-93-9 Sulfuric acid 1 %

7647-01-0 Hydrochloric Acid 20 %

SARA Reportable Quantity.

7664-93-9 Sulfuric acid 1 %

7647-01-0 Hydrochloric Acid 20 %

EU RISK PHRASES

Toxic Substances Control Act (TSCA): All components are listed or exempt from the Toxic Substances Control Act except those listed below.

- None

Section 313 of Title III of the Superfund Amendments and Reautorizarion Act of 1985 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.

7647-01-0 Hydrochloric Acid 20.4%

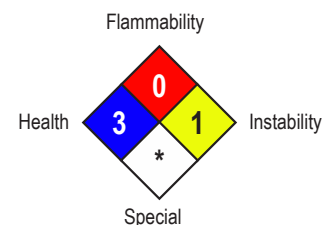
7664-93-9 Sulfuric acid 0.92%

16. OTHER INFORMATION

Hazardous Material
Information System (HMIS)

Health	3
Flammability	0
Physical Hazard	1
Personal Protection	D

National Fire Protection
Association (NFPA)



HMIS & NFPA Hazard Rating Legend

* = CHRONIC HEALTH HAZARD

0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

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LEGEND

0 = LEAST 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME

N.D. = NOT DETERMINED N.A. = NOT AVAILABLE N/A = NOT APPLICABLE

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202 NEW MASONRY DETERGENT

1. PRODUCT DATA

Date of Preparation: March 1, 2015

Product Name: 202 New Masonry Detergent

Producer: Diedrich Technologies, A Hohmann & Barnard Company, 310 Wayto Road, Schenectady, NY 12303

Company Contact: Mike Eglin

Telephone: 800-283-3888

24-Hour Emergency Contact: CHEMTREC 800-424-9300

This product is manufactured for Commercial/Industrial use. Not recommended for: Household use.

2. HAZARDS IDENTIFICATION

GHS Ratings:

Oral Toxicity: Acute Tox. 5

Anticipated oral LD50 between 2000 and 5000 mg/kg;
Indication of significant effect in humans; Any mortality at class 4; Significant clinical signs at class 4

Inhalation Toxicity: Acute Tox. 4

Gases >2500 + <=5000ppm, Vapors >10 + <=20mg/l,
Dusts & mists >1 + <=5mg/l

Skin corrosive: 1A

Destruction of dermal tissue: Exposure <3 min.
Observation <1 hour, visible necrosis in at least one animal

Eye corrosive: 1 Serious

eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

Respiratory sensitizer: 1

Respiratory sensitizer

GHS Hazards:

- H303** May be harmful if swallowed
- H314** Causes severe skin burns and eye damage
- H318** Causes serious eye damage
- H332** Harmful if inhaled
- H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled

GHS Precautions

- P260** Do not breathe dust/fume/gas/mist/vapours/spray
- P261** Avoid breathing dust/fume/gas/mist/vapours/spray
- P264** Wash skin thoroughly after handling

- P271** Use only outdoors or in a well-ventilated area
- P280** Wear protective gloves/protective clothing/eye protection/face protection
- P285** In case of inadequate ventilation wear respiratory protection
- P310** Immediately call a POISON CENTER or doctor/physician
- P312** Call a POISON CENTER or doctor/physician if you feel unwell
- P321** Specific treatment (see section 4)
- P363** Wash contaminated clothing before reuse
- P301+P330+P331**
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P303+P361+P353**
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340**
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P304+P341**
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305+P351+P338**
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P342+P311**
Call a POISON CENTER or doctor/physician
- P405** Store locked up
- P501** Dispose of contents/container according to local regulations

Danger



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3. COMPOSITION

Chemical Name/ CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Hydrochloric Acid 7647-01-0 26 percent		2 ppm Ceiling	NIOSH: 5 ppm Ceiling; 7 mg/m3 Ceiling

4. FIRST AID MEASURES

Inhalation: Remove from further exposure. For those providing assistance, avoid exposure to yourself. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, a trained individual should attempt to resuscitate while getting immediate medical aid.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.

Skin Contact: In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

Ingestion: If conscious, give 2 to 3 glasses of water. Do not induce vomiting and seek medical attention immediately.

Notes to Physician: No data found.

5. FIRE FIGHTING MEASURES

Flammable Limits: LEL: N/A UEL: N/A

Flash Point: No data available.

Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Unusual Fire or Explosion Hazards: No data available.

Hazardous Combustion Products: See Section 10 for a list of hazardous decomposition products for this mixture.

Fire Fighting: If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

Fire Fighting: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Stop leak if you can do it without risk, stay upwind, and avoid run off to waterways and sewers.

SMALL SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Dike to collect large liquid spills, collect leaking liquid in sealable compatible containers.

ACID SPILLS: Neutralize with Soda Ash, (Sodium Carbonate) Hydrated Lime, (Calcium Hydroxide) or Baking Soda (Sodium Bicarbonate). Cautiously neutralize remainder. Then wash away with plenty of water.

7. HANDLING AND STORAGE

Handling Precautions: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containment closed when not in use. Do not handle or store material near heat, sparks, or open flames, or other sources of ignition.

Storage: Prevent from freezing. Store at room temperatures, i.e., 40 to 95°F (4 to 35°C)

Regulatory Requirements: No data found

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Chemical Name/ CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Hydrochloric Acid 7647-01-0		2 ppm Ceiling	NIOSH: 5 ppm Ceiling; 7 mg/m3 Ceiling

Engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

Ventilation Control: Provide adequate ventilation to control airborne concentration below the exposure guidelines/limits.

Administrative controls: No data found.

Personal Protection: As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard Assessment of all workplaces to determine the need for proper protective equipment for each employee.

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Eye Protection: Normal industrial eye protection practices should be employed.

Skin Protection: In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory: If airborne concentration limits are not met, an approved respirator must be worn.

Contaminated Equipment: Dispose of the waste in compliance with federal, state, regional, and local regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point: Not Determined

Freezing point: Not Determined

Solubility: Complete

Boiling range: 85°C

Flash point: 999°C, 999°F

Evaporation rate: Not Determined

Flammability: Not Determined

Appearance: Yellow

Odor: Pungent

Physical State: Liquid

Vapor Pressure: Not Determined

Odor threshold: Not Determined

Vapor Density: Not Determined

pH: Strong Acid <1

Explosive Limits: 0%

Partition coefficient (n-Octanol/water): Not Determined

Autoignition temperature: N/A Decomposition

Temperature: Not Determined

Viscosity: Not Determined

Density: 1.12775746

10. STABILITY AND REACTIVITY

Stability: STABLE

Incompatibilities: Avoid contact with strong bases.

Hazardous Decomposition Products: *Note:* these are all possible decomposition products based on molecular structure of components:

- Hydrogen Chloride
- Chlorine or Oxides of Chlorine
- Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity:

Oral Toxicity: 2,713.00mg/kg

Inhalation Toxicity: 13.66mg/L

Routes of entry: No data found.

Target Organs: Eyes Skin Respiratory System

CAS Number	Description	% Weight	Carcinogen Rating
None			No Data Found

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available for this product.

13. DISPOSAL

Disposal Instructions: Refer to the latest federal, state, and local regulations regarding proper disposal.

14. TRANSPORTATION INFORMATION

The following is for US DOT Highway transportation. Other modes/jurisdictions may have different classifications.

Agency	Proper Shipping Name	UN Number	Packaging Group	Hazard Class
US DOT	Corrosive Liquid NOS (Hydrochloric Acid)	UN1760	II	8

15 - REGULATORY INFORMATION

This listing is to highlight federal level regulation of the product. Individual states, and other nations may have further regulations not listed below.

US DOT List of Marine Pollutants

(172.101 - Appendix B): None

US DOT List of Hazardous Substances and Reportable Quantities (172.101 Appendix A):

7647-01-0 Hydrochloric Acid 26 %

US DOT List of Severe Marine Pollutants

(172.101 - Appendix B): None

SARA Section 302 Extremely Hazardous Substances (40 CFR 355): 7647-01-0 Hydrochloric Acid 26 %

Sara Section 302 Threshold Planning Quantity:

7647-01-0 Hydrochloric Acid 26 %

SARA Section 313, Toxic Chemicals (40 CFR 372.65):

7647-01-0 Hydrochloric Acid 26 %

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SARA Reportable Quantity:

7647-01-0 Hydrochloric Acid 26 %

EU RISK PHRASES

Toxic Substances Control Act (TSCA): All components are listed or exempt from the Toxic Substances Control Act except those listed below.

- None

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1985 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.

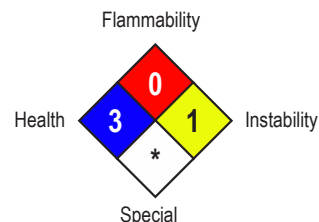
7647-01-0 Hydrochloric Acid 25.8%

16. OTHER INFORMATION

Hazardous Material
Information System (HMIS)

Health	3
Flammability	0
Physical Hazard	1
Personal Protection	D

National Fire Protection
Association (NFPA)

**HMIS & NFPA Hazard Rating Legend**

* = CHRONIC HEALTH HAZARD
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

LEGEND

0 = LEAST 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME

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