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**Material Safety Data Sheet**

**I. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** ANTI SET-OFF POWDER  
**Product Code:** 650-B016POWDERS  
**MSDS Code:** MSD-POWDERS  
**Revision Number:** 1  
**Revision Date:** 2011-03-06 11:13:05

**II. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS#	Chemical Name	%
9005-25-8	Starch	60 - 99
Proprietary	Calcium Silicate	0 - 1.5

Please see Section VIII for product and component exposure guidelines.  
Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

**III. HAZARDS IDENTIFICATION**

**HMIS Rating**    **Health:** 1                      **Flammability:** 1                      **Reactivity:** 0

**This product falls under the following WHMIS class:**  
This product is not controlled. Ce produit n'est pas contrôlé.

**Immediate (Acute) Health Effects by Route of Exposure**

**Inhalation:** Can cause minor respiratory irritation.  
**Skin Contact:** Can cause minor skin irritation.  
**Eye Contact:** Can cause minor irritation, tearing and reddening.  
**Ingestion:** No hazard in normal industrial use.

**Long-Term (Chronic) Health Effects**

**Reproductive and Developmental:** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.  
**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

**Ingredients of this product appear on the following OSHA identified carcinogen lists at >= 0.1% by weight (yes/no):**

OSHA No                      NTP No                      IARC 1 & 2A No                      NIOSH No  
IARC 2B No

#### **IV. FIRST-AID MEASURES**

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<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen.
<b>Eyes:</b>	Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.
<b>Skin Contact:</b>	Wash with soap and water.
<b>Ingestion:</b>	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

#### **V. FIRE FIGHTING MEASURES**

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<b>Flammability Summary:</b>	A dust explosion is possible if finely divided material is dispersed in air at a sufficiently high concentration and an ignition source is present.
<b>Extinguishing Media:</b>	Use water spray/fog for cooling. Water spray
<b>Fire and/or Explosion Hazards:</b>	No data. Dust accumulation from this product may present an explosion hazard in the presence of an ignition source.
<b>Fire Fighting Methods and Protection:</b>	Difficult to ignite, no special instructions available. Use methods appropriate for surrounding materials.
<b>Hazardous Combustion Products:</b>	Carbon dioxide, Carbon monoxide Silicon dioxide
<b>Flash Point:</b>	Not applicable to this product in the physical state described in Section IX. Dusts at sufficient concentrations can form explosive mixtures with air. (See Section V for the Flammability Summary)
<b>Firepoint:</b>	Firepoint not determined.

#### **VI. ACCIDENTAL RELEASE MEASURES**

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<b>Personal Precautions and Equipment:</b>	No health effects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS
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#### **VII. HANDLING AND STORAGE**

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<b>Handling Precautions:</b>	Mildly irritating material. Avoid unnecessary exposure. Avoid creating dusts as an explosive dust air mixture can be created at high concentrations. If dusts are created, ensure no sources of ignition are present. Take precautionary measures to prevent electrostatic discharges.
<b>Storage Conditions:</b>	Store in a cool dry place. Isolate from incompatible materials.

#### **VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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<b>Engineering Measures:</b>	General room ventilation might be required to maintain operator comfort under normal conditions of use.
<b>Respiratory Protection:</b>	No respiratory protection required under normal conditions of use.
<b>Eye Protection:</b>	Wear safety glasses with side shields when handling this product. Have an eye wash station available.

**Skin Protection:** Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** Wear impervious material. No hand protection required under normal conditions of use.

**Exposure Guidelines:**

CAS#	Chemical Name	OSHA Exposure Limits	ACGIH TLV - TWA	ACGIH STEL	IDLH
9005-25-8	Starch	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)	10 mg/m <sup>3</sup> TWA	No STEL	Not on list
Proprietary	Calcium Silicate	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)	10 mg/m <sup>3</sup> TWA (synthetic nonfibrous, particulate matter containing no asbestos and <1% crystalline silica)	No STEL	Not on list

If this product is provided in a dry powder state it should be considered a nuisance dust (PEL 10 mg/m<sup>3</sup>).

If the processing of this product produces a mist it should be considered to be an oil mist with a PEL of 5 mg/m<sup>3</sup>.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Powder
<b>Color:</b>	White
<b>Odor:</b>	None to very faint
<b>Solubility in Water:</b>	Not determined
<b>Volatile Organic Chemicals % by wt:</b>	0.00
<b>VOC lb/gal</b>	0.00
<b>Specific Gravity:</b>	1.49
<b>Bulk Density (lbs/Gal):</b>	12.41
<b>Bulk Density (kg/L):</b>	1.49

**X. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Avoid the build up of dust in the air. Risk of dust explosion.
<b>Materials to Avoid/Chemical Incompatibility:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Silicon dioxide Carbon dioxide, Carbon monoxide

**XI. TOXICOLOGICAL INFORMATION**

**Component Toxicology Data (NIOSH):**

CAS#	Chemical Name	LD50/LC50
9005-25-8	Starch	No data available
Proprietary	Calcium Silicate	Oral LD50 Rat 3400 mg/kg

**XII. DISPOSAL CONSIDERATIONS**

ANTI SET-OFF POWDER

**Waste Description for Spent Product:** Spent or discarded material is non-hazardous according to environmental regulations.  
**Disposal Methods:** Dispose in accordance with Federal, State, Provincial and Local regulations. Material may be compatible with industrial waste incineration or inclusion in a fuel blending program. This characterization is subject to approval by your waste management contractor. This material should be recycled if possible.

**XIII. REGULATORY INFORMATION**

**TSCA Status** All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Chemical Name	CAS #	Regulation	Percentage
Not on list		CERCLA	
Not on list		NPRI (Cdn)	
Not on list		PROP 65	
Not on list		SARA 313	
Not on list		SARA EHS	

The following items require export notification for TSCA

Chemical Name	TSCA 12b list section
Not on list	

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains information required by the Controlled Products Regulations.

**XIV. TRANSPORTATION INFORMATION**

49CFR/TDG - Bulk:	NOT REGULATED
IATA - Bulk:	NOT REGULATED
IMDG - Bulk:	NOT REGULATED

**XV. ADDITIONAL INFORMATION**

**References:**

**Disclaimer:** Varn International, Inc. a Flint Group Company has prepared this Material Safety Data Sheet ("MSDS") in compliance with 29 CFR 1910.1200, understands that its customers may use this MSDS to comply with that section, and believes that the data set forth herein are accurate as of the date hereof; however, this MSDS shall not constitute a warranty with respect thereto.