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## Material Safety Data Sheet

### SECTION I – PRODUCT IDENTIFICATION AND USES

<b>Product name</b>	<b>SODIUM N (ISO) - BUTYL XANTHATE</b>
<b>Applications</b>	Flotation agent for sulfide ores, works as a collector
<b>Sales representative</b>	<b>LMS</b> Canada

### SECTION II – CHEMICAL INGREDIENTS

<b>Main ingredient</b>	C <sub>4</sub> H <sub>9</sub> OCSSNa, 82 – 84.5%; free alkali: ≤0.5%
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### SECTION III – PHYSICAL & CHEMICAL DATA

<b>Physical state</b>	Solid
<b>Appearance</b>	Light yellow powder or tiny particles
<b>Odour</b>	Unpleasant odor
<b>Vapor pressure</b>	N/A
<b>Vapor density</b>	N/A
<b>Boiling point</b>	N/A
<b>Evaporation rate</b>	N/A
<b>pH value</b>	Solution presents weak base, pH value not available
<b>Special gravity</b>	0.86 – 0.88

### SECTION IV – FIRE AND EXPLOSION

<b>Flammability</b>	Flammable, especially the vapor. Keep away from all ignition sources including cigarettes, open flames, sparks, mobile phones etc...
<b>Means of extinction</b>	Foam or water jet extinguishing. Prevent contamination of drains or waterways; absorb runoff with sand or similar. CAUTION: CCl <sub>4</sub> can not be used for extinction.
<b>Flashpoint</b>	N/A
<b>Auto-ignition temperature</b>	Unknown
<b>Explosion data</b>	Toxic gases may be evolved when heated. Remain upwind. Full protective equipment and self contained breathing apparatus must be worn when combating fire. Container may explode when heated. Use water to cool intact containers only. Sensitive to static discharges. Take precautionary measures against static discharges.

### SECTION V – STABILITY AND REACTIVITY

<b>Chemical stability</b>	Relatively Stable
<b>Incompatibility with other substances</b>	Acetone (丙酮), hydrocarbon oil (烃基油)
<b>Reactivity, and under what conditions</b>	

Decomposition occurs under condition of acid, may also evolve carbon oxides and sulfur oxides when heated to decomposition.

## SECTION VI – TOXICOLOGICAL PROPERTIES

<b>Skin contact</b>	May lead to drying and defecting of skin, rash, dermatitis and burns. Toxic effects may result form skin absorption.
<b>Eye contact</b>	May result in irritation, pain, redness and conjunctivitis. Prolonged contact may cause corneal burns and possible permanent damages.
<b>Inhalation of dust</b>	Dust inhalation may cause headache, fatigue, loss of appetite, nausea and vomiting.
<b>Ingestion</b>	Ingestion may cause burns, gastrointestinal tract irritation, nausea, abdominal pain, vomiting and diarrhea.

## SECTION VII – PREVENTIVE MEASURES

### Personal protective gear

Where creation of dust is unavoidable, use conventional approved or equivalent respiratory protection equipment based on consideration of airborne and duration of exposure.

**Hand** Gloves impervious to moisture.

**Eye** Use appropriate eye protection equipment to minimize contact with dust from dry product.

**Other** Wear fully protective clothing, footwear, gloves and face shield for specific applications, such as prolonged exposure and / or high concentrations. Clean clothing that has become dusty.

Use adequate ventilation. Avoid dust to accumulate in workplace.

## SECTION VIII – FIRST AID MEASURES

**Skin** Remove contaminated clothing and gently flush affected area with water. For caustic burns to skin, consult a doctor. Laundry clothing before reusing.

**Eye** Hold eyelids apart and flush continuously with running water or sterile saline solution for at least 15 minutes. Obtain medical attention.

**Inhalation of dust** Leave area of exposure. If assisting a victim, avoid becoming a casualty; wear an air-lined respirator or self contained breathing apparatus and other equivalent protective equipment, where an inhalation risk exists. Give victim oxygen or apply artificial respiration as needed if available; seek urgent medical attention.

**Ingestion** Do not induce vomiting. Seek immediate medical attention.

**Other** Eye wash facilities should be available at workplace.

In case of accident or feeling unwell, contact a doctor or a poisons information center immediately for help, show label where possible.

## SECTION IX – STORAGE, SHIPPING & DISPOSAL

### Spillage and waste disposal

Clean up personnel should use respiratory protection and suitable clothing and footwear such as cotton overall and rubber boots to avoid direct skin contact. Eliminate potential ignition sources.

If uncontaminated, collect for reuse or disposal. Use dust less procedures.

If contaminated, apply proper method and containers for disposal to local

applicable regulations.

Thoroughly flush the area with water. Prevent contamination of drains or waterways. Absorb runoff with sand or similar.

**Handling procedures and equipment**

Use safe work practices to avoid eye and skin contacts and inhalation. Observe good personal hygiene. Prohibit eating, drinking and smoking in contaminated areas. Wash hands before eating. Remove contaminated clothing and protective equipment before entering eating areas.

**Packing and shipping information**

Use metal containers or nylon woven packages lined with plastic bags. Prevent from moisture.

**Storage requirement**

Store in dry, cool, and ventilated areas. Remove from direct sunlight. Isolate from acid, oxidizing materials, and foodstuffs. Ensure containers are properly closed all the time and properly labeled. Check regularly for spills.

Keep locked up and out of reach of children.

Keep away from sources of ignition.

**SECTION X – PREPARATION OF MSDS**

**Prepared and translated by** LMS Canada

**Last update** May, 2006

Note: The information in this Material Safety Data Sheet associates only to the specific material designated herein and does not apply to uses in combination with any other materials or for any other processes. The information given is based on technical data provided by the manufacturer and those publications available when compiling/updating document and we believed to be reliable. It is subject to change or update without notice. Because conditions of applications vary and are beyond our control, it is users' responsibility to obtain safety data for combinations with other materials, or for applications in other processes. Always follow local safety regulations applicable on erection sites.