



# SafeSlick™ Boron Bulk Mold Release & Mold Conditioner

*A durable high-temperature, high-pressure parting agent*

**Non-flammable**



IMS SafeSlick™ is a unique Boron compound formulated to solve the most difficult mold jobs – particularly high-temperature & high-pressure applications.

### Mold Release Properties

SafeSlick™ imparts a friction coefficient of 0.15 to 0.3 – ideal for use with thin walled parts and very tight tolerances. SafeSlick™ can be applied by brushing, wiping or sponging; and can be thinned with water to the best consistency for your application. It dries to an extremely thin, semi-permanent layer of 2 to 10 microns. Burnishing or buffing enhances its capabilities. The coating builds up over time, so eventually only spot touch-ups are required in most cases.

- Non-silicone
- Non-oil
- Non-flammable
- Non-toxic
- Non-conductive (electrically)
- Non-corrosive
- Non-reactive
- Temperature range from below freezing up to 2200° F (1200° C) with excursions to 2700° F (1500° C)
- Withstands pressures up to 65,000 psi
- Inert to most chemicals
- Low thermal expansion



### Mold Conditioning Properties

- Can reduce wear on mold surfaces from abrasive, filled resins
- Can shorten initial startup times for new molds
- Can extend life of surface-damaged molds that could not otherwise be polished
- Apply to any mold metal and surface, cold or hot
- Water clean up
- Provides excellent and efficient heat transfer (especially for high process temperatures)

### In addition to its performance properties, SafeSlick™ is safe to use!

- No VOC compliance issues
- No OSHA issues
- No EPA issues
- No California Proposition 65 issues
- No carcinogen issues
- No propellants or exhaust issues
- No special storage or handling issues
- No odors or fumes

**SafeSlick™**  
reduced part reject rate  
from 5% to 1/2%!

A compression molder came to IMS looking for a solution to a big problem.

They were molding high-tech composite parts at a mold temperature of 800° F and 8,000 psi with a 20 minute cycle time.

The mold release they were using was unable to withstand the pressure and temperature, resulting in an extremely high part reject rate of 5%.

Additionally, the mold release would decompose and become acidic, attacking the mold surface steel. It would also leave built-up hardened deposits on the mold resulting in longer cleaning and preparation time for the next cycle.

Our technical support people analyzed the situation and gave the processor a sample of SafeSlick™ boron compound. The molder's reject rate dropped from 5% to 0.5% and their overall cycle time improved by over 30%. As an added benefit, SafeSlick™ reduced their mold release costs over 30%!

Item #	Description	Price (each)
<b>SafeSlick™ Boron Bulk Mold Release and Mold Conditioner</b>		
126879	1 gallon pail	\$113.50
133087	4 fluid-ounce bottle	8.45

SafeSlick™ is a trademark of IMS Company



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phone order toll-free (USA & Canada)

**1.800.537.5375**

fax order toll-free (USA & Canada)

phone order toll-free (Mexico)

tech support toll-free (USA & Canada)

e-mail

**1.888.288.6900**

**001.888.304.1307**

**1.866.467.9001**

**sales@imscompany.com**

