

# REDUCE YOUR INJURIES TODAY STRIVE TOWARDS ZERO HARM



**PROTECTION FROM ABOVE™**



BLH Safety Solutions  
providing  
reliable securing



**safetybarricading™**



**guardingsolutions™**

Protecting employee's,  
the environment and  
company assets

Independantly Tested and Certified  
[www.blhsafetysolutions.com](http://www.blhsafetysolutions.com)



This brochure details the products and services offered by:

TM

# safety solutions

## BLH SAFETY SOLUTIONS™ MISSION STATEMENT

Our mission is to provide global industry Safety Solutions to minimise risk across all industry sectors through innovative safety products, services, designs and solutions.

**“think safe, be safe”**

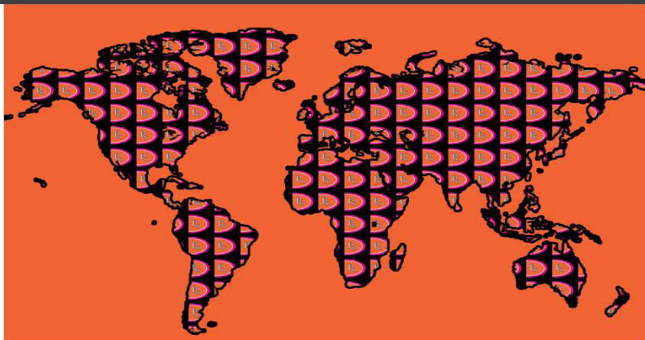


**BLH Group Managing Director and his family.**

# PROTECT WHAT'S MOST IMPORTANT



# GLOBAL SOLUTIONS WITH A LOCAL PRESENCE



## VALUED CLIENTS INCLUDE



visit [www.blhsafetyolutions.com](http://www.blhsafetyolutions.com) for your nearest local distributor



# Benefits of BLH Safety Barricading and Guarding products include

- Independantly tested and certified
- Lightweight
- Flame resistant
- Impact resistant
- Chemical resistant
- UV stabilised
- Glare resistant
- Non heat conductive
- Corrosion resistant in harsh environments
- Minimal wind loading on installed structures
- Reusable
- Cost effective
- No hot work permits required
- Permanent or temporary installations
- Recyclable polymers for a greener environment
- Fast and easy to install and remove
- No painting or maintenance required
- DIY Installation
- Long life compared to steel alternatives



**Globally recognised throughout industry due to its unique innovative design.**





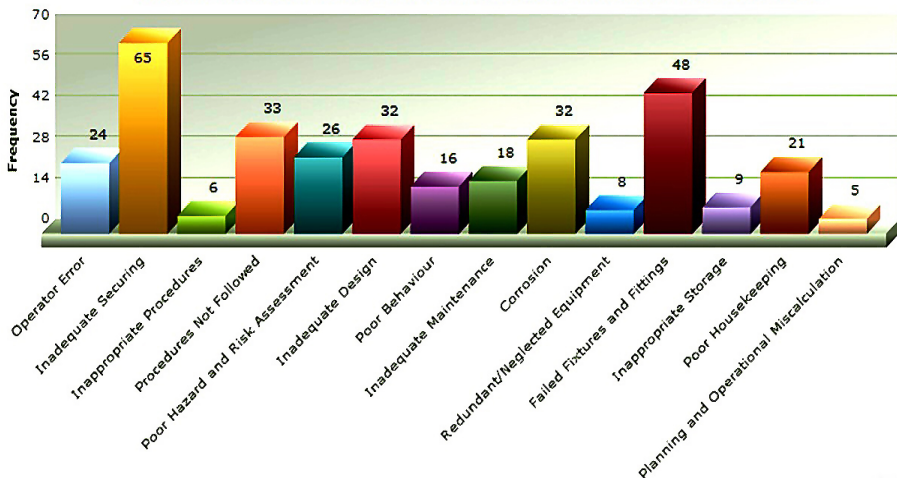
Infilling your offshore handrails protects employee's from potential dropped hazards from levels and also any debris falling off into our oceans

## BLH Stop Drop™ Barricading System

BLH STOP DROP™ BARRICADING SYSTEM is a **unique** advanced polymer Barricading System **specifically designed and engineered** to combat one of the world's most common causes of workplace injuries and fatalities, being hit by falling objects.

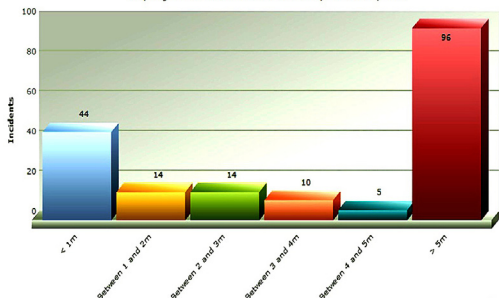
Up to 60% of workplace injuries are directly caused by dropped objects across all industry sectors.

Dropped Object Causes in 218 Actual and Potential Incidents between Apr-2012 and Apr-2013

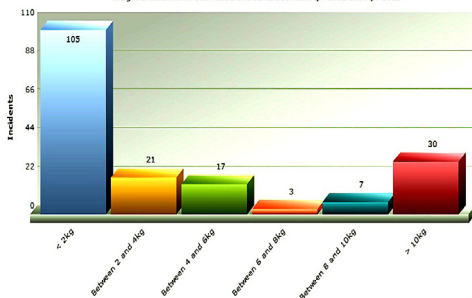


### Dropped Object causes between April 2012 and April 2013

Drop heights of 183 Actual Incidents between Apr-2012 and Apr-2013



Weight breakdown of 183 Actual Incidents between Apr-2012 and Apr-2013



Statistics shown are available from DORIS (Dropped Object Register of Incidents and Statistics) which is an online database of dropped object incidents that have occurred in oil and gas regions worldwide. [www.dropsonline.org](http://www.dropsonline.org)

# Ideal Applications



**Fixed Platforms**



**Semi-Submersible Rigs**



**Topside Platforms**



**FPSO** (Floating Production Storage and Offloading)



**Jack Up Rigs**



**LNG** (Liquid Natural Gas)



# Ideal Applications



**Oil Refining**



**Mining**



**Power/Energy**



**Transport/Infrastructure**



**Aviation**



**Food Processing**

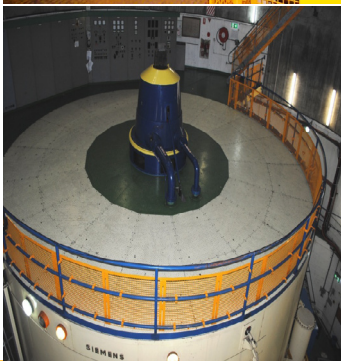




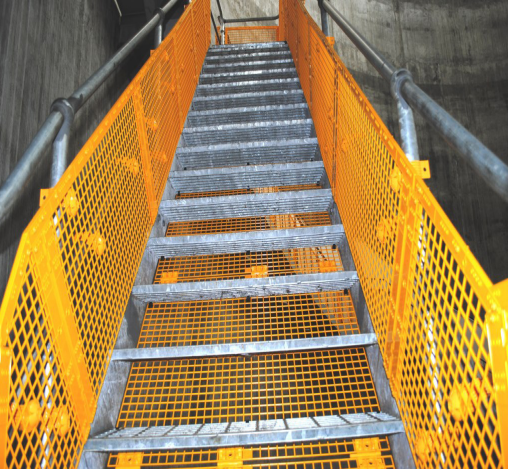
# safety solutions™

## Adaptable to your workplace

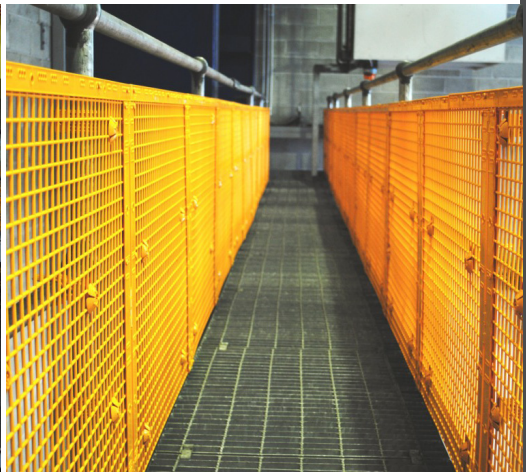
**BLH STOP DROP™ BARRICADING SYSTEM** is custom designed to suit your workplace conditions, with flexible options while reducing the risk of dropped objects.







BLH Stop Drop™ Barricading installed on Stairways



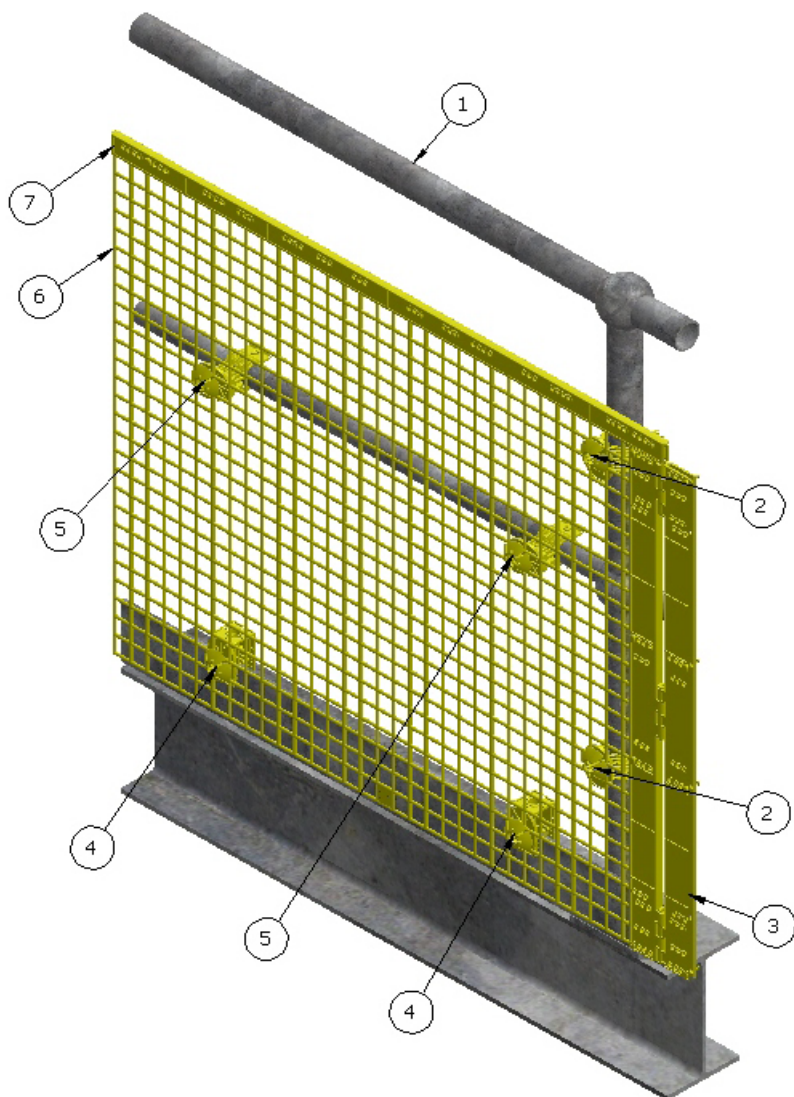
BLH Stop Drop™ Barricading installed on Walkways



BLH Stop Drop™ Barricading installed on Platforms



## BLH Stop Drop Barricading Standard Meterage



ITEM NO.	DWG/PART NUMBER	DESCRIPTION	QTY.
1	NOT PART OF SUPPLY SCOPE	PLATFORM STRUCTURAL COMPONENTS TO AS1657	1
6	BLH-SDB-002-008	STOP DROP MESH PANEL	1
4	BLH-SDB-001-005-M2	KICK RAIL CLIP ASSEMBLY	2
5	BLH-SDB-001-003-M2	MIDDLE RAIL CLIP ASSEMBLY	2
2	BLH-SDB-001-004-M2	STANCHION CLIP ASSEMBLY	2
3	BLH-SDB-001-006-M2	MESH PANEL VERTICAL JOINER ASSEMBLY	1
7	BLH-SDB-001-013-M2	MESH PANEL TOP CAPPING RAIL ASSEMBLY	1





# guardingsolutions™

## BLH Guarding Solutions™

BLH GUARDING SOLUTIONS™ have been designed to reduce the risk of injuries and fatalities that result from contact with moving parts and machinery.

BLH GUARDING SOLUTIONS™ are ideal for use with most plant equipment, conveyors, knife gate valves and moving machinery, as well as many more applications across a wide range of industries to prevent entanglement and minimise risk.

Clients can provide BLH detailed information for their guarding requirements and we will deliver a solution to your specific guarding requirements.



Protect your employees from injury with our unique guarding solutions

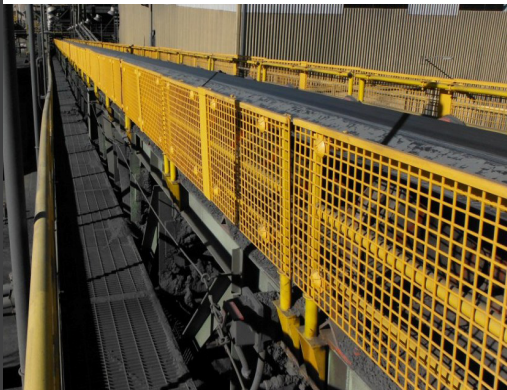


## Modular Conveyor Guarding Systems

**BLH GUARDING SOLUTIONS™** can be tailored to suit your specific requirements to guard against injuries and incidents on conveyors, plant and equipment.

Ease of maintenance of equipment is assured by simply removing a section of Barricading/ Guarding to gain access.

**BLH SAFETY SOLUTIONS™** have many more Barrier Guarding Systems available and can work with you to design a system that suits your requirements.





# Standards and Regulations

The **BLH STOP DROP™ BARRICADING SYSTEM** and **BLH GUARDING SOLUTIONS™** conform to relevant globally recognised standards and regulations including:)

## Australian Standards

- + AS 1657
- + AS 4576
- + AS 1170.2
- + AS 4024.1601-2006
- + AS 1576

## US Occupational Safety & Health Administration

### Code of Federal Regulations

- + 29 CFR 1910.212(a)(3)(ii)
- + 29 CFR 1926.502(b)(5)
- + 29 CFR 1910.28(a)(17)
- + 29 CFR 1910.217(f)(4)
- + 29 CFR 1910.212(a)(5)

## US Mine Safety & Health Administration

- + 30 CFR 75.1722
- + 30 CFR 56.14112

## International Standardisation Organisation

- + ISO 13849-1

## British Standards and European Norm

- + BS EN 953

## Canadian Standard Associations OSH Regulations

- + CSAZ 432

## Singapore Standards

- + SS 537

## American National Standards Institute

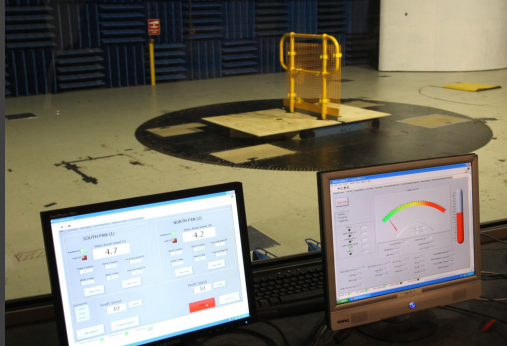
- + ANSI B11.19-2010

## Local Legislations and Regulations

The information presented in this document in relation to global standards & regulations is not provided with the intention of giving a comprehensive understanding of the suitability of our products in a particular environment or circumstance.)

Please refer to your relevant standards and regulations for full details.)





Our products have undergone extensive independent testing

## Wind Rating

The **BLH STOP DROP™ BARRICADING SYSTEM** has undergone rigorous external wind tunnel testing to measure drag and  $C_{fig}$  (aerodynamic shape factor) values of the barrier attached to a standard handrail system, as well as the strength of the panel connection clips and force exerted on the platform to which they are attached in wind conditions between 0 and 50 m/s (180 km/h). This will test the product for wind loading and suitability for use on structures.

**BLH SAFETY SOLUTIONS™** worked closely with BMT WBM and Monash University, Australia, to test the wind loading of the **BLH STOP DROP™ BARRICADING SYSTEM**. Through this testing it was shown that the **BLH STOP DROP™ BARRICADING SYSTEM** complies to AS1170.2, and is able to withstand 1.8kPa of pressure, which translates to 180 kph winds / 110 mph winds.

$C_{fig}$  for the mesh is determined based on reference area  $A_z$  (the area enclosed by the external dimensions of the mesh panel).

$A_z$  for wind normal to the mesh = 0.841m<sup>2</sup> (0.995m x 0.845m single Mesh Panel size)

Based on the test data obtained the aerodynamic shape factor for the Mesh Panel only is:

$C_{fig}$ , for wind direction normal to the panel is  $C_{fig} = 0.36$

Based on test data obtained the aerodynamic shape factor for the Standard Metreage Assembly (which includes a Mesh Panel and Vertical Joiner, attached to a handrail with Standard Clip Assemblies) is:

$C_{fig}$  for wind direction normal to the Standard Meterage Assembly is  $C_{fig} = 0.46$

The **BLH STOP DROP™ BARRICADING SYSTEM** has minimal impact on structural wind loading and low impacts on structural integrity.



Wind Tunnel testing to determine  $C_{fig}$  value:  
Mesh Panel only

Wind Tunnel testing to determine  $C_{fig}$  value:  
Standard Metreage Assembly



## Operational Temperature ranges

The **BLH STOP DROP™ BARRICADING SYSTEM** is available in two advanced polymer compositions.

- Our M2 system (standard) material is suitable for use in the temperature ranges of +120 Degrees Celsius (248 Degrees Fahrenheit) to -20 Degrees Celsius (-4 Degrees Fahrenheit)
- Our M3 system (cold weather) material is suitable for use in the temperature ranges of +60 Degrees Celsius (140 Degrees Fahrenheit) to -60 Degrees Celsius (-76 Degrees Fahrenheit)

## Chemical Resistance

The **BLH STOP DROP™ BARRICADING SYSTEM** advanced polymer composition has been independently tested and certified as chemical resistant. Each component was subjected to immersion in both Sulphuric Acid and Shellsol Kerosene for 200 hours, and exhibited less than 0.025% change in mass.

## Fire Information

The **BLH STOP DROP™ BARRICADING SYSTEM** was tested in accordance with AS1530.2 and AS1530.3, and resulted in the following parameters:

Description	Celsius	Fahrenheit
Softening Point	75	167
Melting Point	165	329
Flash Ignition Point	230	446
Self Ignition Point	286	546

## UV Stabilised

Using a UV Weatherometer, **BLH SAFETY SOLUTIONS™** products were tested for 1000 hours in accelerated weather conditions equivalent to 2 years of outdoor weather exposure.

**BLH SAFETY SOLUTIONS™** advanced polymer formula is well suited to harsh outdoor environments. You can be certain that our products will stand the test of time.

## Environmentally Friendly

Our products are recyclable, reusable, and free from harmful chemicals. The advanced polymer blend used is more carbon friendly than steel, and uses less energy to produce. **BLH SAFETY SOLUTIONS™** products can also be returned to us for recycling to create new products, preventing our products from entering land fill and harming the planet.





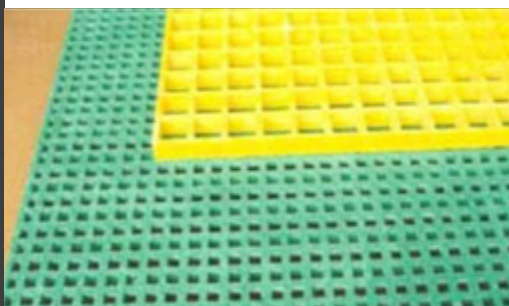
## Other Products

### Fibreglass Reinforced Plastic Hand Railing Systems

**BLH SAFETY SOLUTIONS™** offer Fibreglass Reinforced Plastic (FRP) Hand Railing Systems

Product Features include:

- Fire Retardant
- UV Inhibited
- Chemical Resistant
- High Strength
- Cost Effective
- Low Electrical Conductivity
- Corrosion Resistant
- Lightweight
- Non-Magnetic Conductivity
- Low Maintenance



### Fibreglass Reinforced Plastic Grating Systems

These systems are ideal for use in sewage treatment plants, water treatment facilities, acid plants, chemical processing plants, food manufacturing facilities, electronics industries, recreational facilities, jetties, bridges and industrial manufacturing plants.

Common uses include non slip safety flooring, stairway step treads, scaffolding, industrial operation platforms and foot bridges.

Features of the FRP Grating include:

- High corrosion resistance
- One piece structured panels
- High load strength
- Non conductive
- Zero maintenance
- Fire retardant
- Light weight
- Slip resistant
- Long life span
- Easy to install.

The FRP Grating is available in a range of sizes and colours to meet individual requirements.



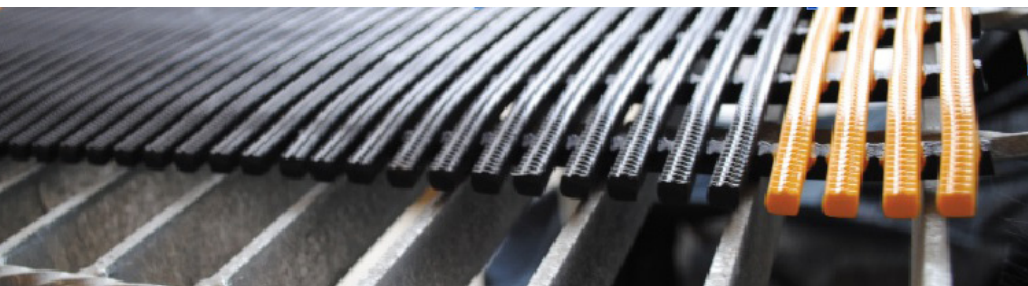


## Stop Drop™ Matting

In order to prevent dropped objects from slipping through the large gaps in steel grating commonly used as walkway flooring and to prevent slips, trips and falls, **BLH SAFETY SOLUTIONS™** offer several floor matting solutions for dropped object prevention.

**BLH SAFETY SOLUTIONS™** offers tubular PVC Matting that is slip resistant, as well as being resistant to oils, grease, acids and alkalis, so you can be sure that your employees will be safe from slips, trips and falls as well as dropped objects when you install tubular floor matting.

Flooring is an integral component of a dropped object prevention system, as it can prevent objects from slipping through gaps in walkways and falling to lower levels. Made for harsh conditions, this PVC flooring can withstand temperatures within a range of -10C to 100C and is self extinguishing on removal of flame. The PVC tubular design of the flooring is anti-fatigue, as well as being hygienic and mould resistant.



## SupaGrippa Matting

A hard-wearing floor matting solution, SupaGrippa Matting is a non-porous PVC matting designed for use in wet and slippery conditions. It also enhances dropped object prevention and protects your flooring or walkways from damage.

Impervious to most oils, alkalis and acids, this matting is great for increasing traction in wet and slippery areas. Available in a range of colours, this matting is suitable for wet areas, mess halls, workshops, labs, walkways and offices, as well as many other applications.



## Workplace measure-ups, installation and Training

BLH SAFETY SOLUTIONS™ offers installation training for your employees, or installation can be carried out by our installation technicians.

Workplace measure-ups by our experienced technicians can be arranged to ensure your safety requirements are fulfilled.



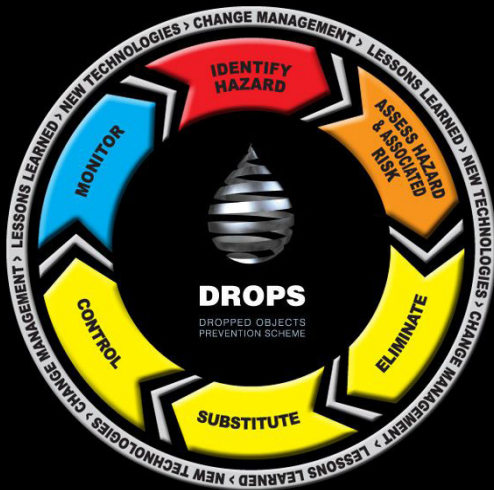


# DROPPED OBJECTS

## STILL HARMING STILL KILLING

**BLH SAFETY SOLUTIONS™**

is a proud member of DROPS  
(Dropped Objects Prevention Scheme).



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**BLH DROPPED OBJECT PREVENTION SYSTEMS**  
**BE PROACTIVE - LEAD THE WAY IN SAFETY**

# Stop falling objects!



**BLHgroup**™

Speak to us today about keeping  
your workforce safe with...

- ☐ **safetybarricading**™
- ☐ **guardingsolutions**™
- ☐ **conveyorguarding**™



**safety**solutions™

website: [www.blhsafety.com](http://www.blhsafety.com)  
email: [info@blhsafety.com](mailto:info@blhsafety.com)