

# Material safety data sheet

**Product name:** Blu62 Instrument Detergent

	<b>Australian sponsor</b>	<b>New Zealand sponsor</b>
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# Blu62® Instrument Detergent

Safety Data Sheet (SDS)

## SECTION 1: IDENTIFICATION

### 1.1 Product Identifier:

**Product name:** Blu62 Instrument Detergent

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

**Identified uses:** Blu62 Instrument Detergent is specifically formulated to protect instruments against the corrosive effects of water and water impurities as well as corrosion from mixed metals.

### 1.3 Details of the Supplier of the Safety Data Sheet (SDS):

**Supplier:** Stryker Distribution  
6300 S. Sprinkle Road  
Portage, Michigan 49002  
United States  
Phone: 1-269-389-3706

**Contact:** Melissa.Kann@stryker.com

**Manufacturer:** Stryker Instruments  
4100 E. Milham Avenue  
Kalamazoo, Michigan 49001  
United States

### 1.4 Emergency Telephone Number:

**From Europe:** 00353 61 498200 (24 hrs)

**From US or Canada:** CHEMTREC 1-(800)-424-9300  
For Hazardous Materials [or Dangerous Goods] Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC within the USA and Canada at 800-424-9300 or globally at 703-527-3887 (collect calls accepted).

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture:

#### 2.1.1 Classification in accordance with EC 1272/2008:

<b>Physical and chemical hazards:</b>	Not classified
<b>Human health:</b>	Skin Irrit. 2 - H315; Eye Dam. 1 - H318
<b>Environment:</b>	Not classified

#### 2.1.2 Classification in accordance with GHS:

<b>Physical and chemical hazards:</b>	Not classified
<b>Human health:</b>	Skin Irrit. 2 - H315; Eye Dam. 1 - H318
<b>Environment:</b>	Not classified

#### 2.1.3 Classification in accordance with 29 CFR 1910 (OSHA HCS):

This product is hazardous under the OSHA Hazard Communication Standard (HCS).

#### 2.1.4 Classification in accordance with HSNO:

Class 8.3 - Eye Corrosive

#### 2.1.5 Classification in accordance with WHMIS:

Class E Corrosive - Causes severe eye and skin irritation upon contact.

#### 2.1.6 Classification in accordance with HMIS:

<b>Health hazard:</b>	2
<b>Flammability:</b>	0
<b>Reactivity:</b>	0

#### 2.1.7 Classification in accordance with NFPA:

<b>Health hazard:</b>	2
<b>Flammability:</b>	0
<b>Reactivity:</b>	0

### 2.2 Label Elements:

Label in accordance with (EC) No. 1272/2008:

Hazard pictograms:



**Signal word:**        **Danger**

**Hazard statements:**

<b>H315</b>	Causes skin irritation.
<b>H318</b>	Causes serious eye damage.

**Precautionary statements:**

<b>P264</b>	Wash hands thoroughly after handling.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.
<b>P302 + P352</b>	If on skin: Wash with plenty of soap and water.
<b>P305 + P351 + P338</b>	If in eyes: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P310</b>	Immediately call a poison center or doctor/physician.
<b>P362</b>	Take off contaminated clothing and wash before reuse.

**2.3 Other Hazards:**

No additional information available.

**2.3.1 Potential Health Effects:**

<b>Inhalation:</b>	Inhalation of vapors or fumes may cause moderate to severe irritation to mucous membranes and respiratory tract. Avoid contact.
<b>Ingestion:</b>	Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract. Do not ingest.
<b>Skin:</b>	Exposure to liquid product may cause moderate to severe irritation to skin. Symptoms of exposure may include redness, itching, swelling or pain. Avoid contact.
<b>Eyes:</b>	Exposure to liquid product causes severe damage to eyes, and possibly burns. Symptoms of exposure may include redness, itching, swelling, tearing or pain. Avoid contact.
<b>Route of Entry:</b>	Skin and/or eye contact. Inhalation. Ingestion.
<b>Target Organs:</b>	Eyes, skin, respiratory system, and lungs.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances:**

This product is a preparation.

**3.2 Mixtures:**

<b>Product Name:</b>	<b>Product Identifier:</b>		<b>Percent Range:</b>	<b>GHS Classification (EC1272/2008):</b>
Alcohols, C10-16	CAS No:	67762-41-8	1-10%	Aquatic Acute 1 - H400
	EC No:	267-019-6		
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	CAS No:	68585-47-7	20-30%	Acute Tox.4 - H302 Skin Irrit.2 - H315 Eye Damage.1 - H318
	EC No:	271-557-7		

**Note:** The full text for all R-Phrases and Hazard Statements are displayed in *Section 16*.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures:

<b>Inhalation:</b>	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
<b>Ingestion:</b>	If this product is ingested, drink small amounts of water and seek medical attention promptly. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Skin:</b>	If this product contacts the skin, immediately flush the affected area with soap and water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists.
<b>Eyes:</b>	Do not rub eye. Remove contact lenses if worn. If this product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Seek medical attention if irritation persists.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

<b>General information:</b>	See the Instructions For Use manual for warnings, precautions, interactions, adverse reactions and important physician information.
<b>Inhalation:</b>	Inhalation of vapors or fumes may cause moderate to severe irritation to mucous membranes and respiratory tract. Avoid contact.
<b>Ingestion:</b>	Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract. Do not ingest.
<b>Skin:</b>	Exposure to liquid product may cause moderate to severe irritation to skin. Symptoms of exposure may include redness, itching, swelling or pain. Avoid contact.
<b>Eyes:</b>	Exposure to liquid product causes severe damage to eyes, and possibly burns. Symptoms of exposure may include redness, itching, swelling, tearing or pain. Effects of contact may be delayed. Avoid contact.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing Media:

The product is not flammable. Fire can be extinguished using: water (spray) or foam for large fires and Carbon Dioxide (CO<sub>2</sub>) or dry chemicals for small fires.

### 5.2 Special Hazards Arising from the Substance or Mixture:

<b>Hazardous combustion products:</b>	Burning produces oxides of carbon and sulphur.
<b>Unusual fire and explosion hazards:</b>	None
<b>Specific hazards:</b>	None

### 5.3 Advice for Firefighters:

<b>Special firefighting procedures:</b>	Use water to cool containers exposed to a fire.
<b>Protective equipment for firefighters:</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use protective equipment appropriate for surrounding materials.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment, and Emergency Procedures:

Follow precautions for safe handling described in this SDS. In case of spills, beware of slippery floors and surfaces.

### 6.2 Environmental Precautions:

Do not discharge into drains, water courses, or onto the ground.

### 6.3 Methods and Material for Containment and Cleaning Up:

Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. Contain spill area and soak up material with sand or other absorbent. Place into chemical waste container for disposal according to local, state, or federal regulations at an approved chemical waste reprocessing facility.

### 6.4 Reference to Other Sections:

For waste disposal, see *Section 13*.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling:

See the Instructions For Use manual. Use proper personal protection when handling (see *Section 8*). Use under well-ventilated conditions. Avoid contact with eyes, skin and clothing. Do not wear contact lenses. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do not ingest. Wash thoroughly after handling. Rinse container before disposal.

### 7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in tightly closed original container in a dry, cool and well ventilated place. Store away from: Strong oxidizing agents. Avoid excessive heat for prolonged periods of time. Avoid contact with strong acids.

### 7.3 Specific End Use(s):

The identified uses for this product are detailed in *Section 1.2*.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters:

No occupational exposure limits noted for ingredient(s).

### 8.2 Exposure Controls:

#### 8.2.1 Engineering measures:

Provide adequate ventilation.

#### 8.2.2 Protective equipment:

**Eye protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Handle with gloves. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. If risk of splashing face mask, long sleeved shirt, trousers and resistant footwear must be worn. Impervious apron may be used. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

**Other protection:** Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station and safety shower where splashing is probable.



### 8.2.3 Environmental exposure controls:

Do not discharge into drains, water courses, or onto the ground.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties:

<b>Appearance:</b>	Liquid	<b>Vapor Pressure:</b>	No data
<b>Odor:</b>	Light lavender	<b>Vapor Density:</b>	~25 mm Hg
<b>Odor Threshold:</b>	No data	<b>Relative Density:</b>	>1.04
<b>pH:</b>	8	<b>Bulk Density:</b>	No data
<b>Melting Point/Freezing Point:</b>	0°C	<b>Solubility(ies):</b>	Soluble in water
<b>Initial Boiling Point</b>	100°C (212°F)	<b>Partition Coefficient:</b>	No data
<b>Flash Point:</b>	No data	<b>Auto Ignition Temperature:</b>	No data
<b>Evaporation Rate:</b>	No data	<b>Decomposition Temperature:</b>	No data
<b>Flammability:</b>	No data	<b>Viscosity:</b>	No data
<b>Flammability Limit – Lower</b>	No data	<b>Explosive Properties:</b>	No data
<b>Flammability Limit – Upper</b>	No data	<b>Oxidizing Properties:</b>	No data

### 9.2 Other Information:

No other information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

Reacts with strong oxidizers, and strongly acidic solutions.

### 10.2 Chemical Stability:

Stable under normal temperature conditions and recommended use.

### 10.3 Possibility of Hazardous Reactions:

**Reaction with:** Strong oxidizers, and strongly acidic solutions.

**Hazardous polymerization:** Will not polymerize.

#### 10.4 Conditions to Avoid:

Strong oxidizers. Do not mix with strongly acidic solutions.

#### 10.5 Incompatible Materials:

**Materials to avoid:** Do not mix with strong oxidizers or strongly acidic solutions.

#### 10.6 Hazardous Decomposition Products:

Oxides of carbon and sulphur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

#### 11.1.1 Toxicological information:

No toxicological information for the overall finished product.

#### 11.1.2 Acute toxicity:

Product Name:	LD 50 Oral:	LD 50 Dermal:	LC 50 Inhalation:
Alcohols, C10-16	10000 mg/kg rat	11300 mg/kg rabbit	
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	2000 mg/kg rat		

#### 11.1.3 Skin corrosion/irritation:

Irritating

#### 11.1.4 Serious eye damage/irritation:

No data

#### 11.1.5 Respiratory or skin sensitization:

**Respiratory sensitization:** No data      **Skin sensitization:** No data

#### 11.1.6 Germ cell mutagenicity:

**Genotoxicity - In Vitro:** No data      **Genotoxicity - In Vivo:** No data

#### 11.1.7 Carcinogenicity:

**IARC Carcinogenicity:** Not listed      **NTP Carcinogenicity:** Not listed

#### 11.1.8 Specific target organ toxicity - single exposure:

**STOT - Single exposure:** No data      **STOT - Repeated exposure:** No data

#### 11.1.9 Route of entry:

Skin and/or eye contact. Inhalation. Ingestion.

#### 11.1.10 Target organs:

Eyes, skin, respiratory system, and lungs.



## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity:

Not regarded as dangerous to the environment.

### 12.2 Toxicity:

**Acute Toxicity - Fish:** LC 50 (pimephales promelas)  $\geq$  500mg/ml

**Acute Toxicity - Aquatic Invertebrates:** No data

**Acute Toxicity - Aquatic Plants:** No data

### 12.3 Persistence and Degradability:

**Degradability:** This product is readily biodegradable.

### 12.4 Degradability:

**Bioaccumulative potential:** No data

### 12.5 Mobility in Soil:

**Mobility:** The product is soluble in water.

### 12.6 Results of PBT and vPvB Assessment:

This product does not contain any PBT or vPvB substances.

### 12.7 Other Adverse Effects:

None known

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 General Information:

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### 13.2 Waste Treatment Methods:

Do not dump into any sewers, on the ground, or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied. Dispose of all waste in accordance with local, state, and federal regulations covering solid waste disposal.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN Number:

Not applicable

### 14.2 UN Proper Shipping Name:

Not applicable

### 14.3 Transport Hazard Class(es):

No transport warning sign required.

### 14.4 Packing Group:

Not applicable

**14.5 Environmental Hazards:**

Environmentally Hazardous Substance/Marine Pollutant: No

**14.6 Special Precautions for User:**

Not applicable

**14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable

## SECTION 15: REGULATORY INFORMATION

**15.1 International Legislation:**

- 15.1.1 EU Legislation:** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
- 15.1.2 Canadian Regulations:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
- 15.1.3 Australian Regulations:** **Carcinogen Classification Under WHS Regulation 2011, Schedule 10:** Not listed  
**Standard for the Uniform Scheduling of Medicines & Poisons:** Not listed
- 15.1.4 US Regulations:** This SDS was prepared in accordance with the (US) Hazard Communication Standard (29 CFR 1910.1200).
- |  |            |
|--|------------|
| <b>SARA Section 302:</b>                   | Not listed |
| <b>SARA 313 Emission Reporting:</b>        | Not listed |
| <b>California Prop 65:</b>                 | Not listed |
| <b>Massachusetts "Right-To-Know" List:</b> | Not listed |
| <b>New Jersey "Right-To-Know" List:</b>    | Not listed |
| <b>Pennsylvania "Right-To-Know" List:</b>  | Not listed |

**15.2 International Inventories:**

<b>EU - EINECS/ELINCS:</b>	All listed
<b>Canada - DSL/NDSL:</b>	All listed
<b>US - TSCA:</b>	All listed
<b>Australia - AICS:</b>	All listed
<b>Japan - MITI:</b>	All listed
<b>Korea - KECI:</b>	All listed
<b>China - IECSC:</b>	All listed
<b>Philippines - PICCS:</b>	All listed
<b>New Zealand - NZIOC:</b>	All listed

**15.3 Chemical Safety Assessment:**

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

<b>Indication of changes:</b>	Proclean has been rebranded to Blu62 Instrument Detergent, updated SDS to reflect this change.
<b>Revision date:</b>	02/2017
<b>Revision:</b>	F
<b>Hazard statements in full:</b>	<b>H302</b> Harmful if swallowed. <b>H315</b> Causes skin irritation. <b>H318</b> Causes serious eye damage. <b>H400</b> Very toxic to aquatic life.

### Disclaimer

The foregoing information has been compiled by Stryker from sources it considers reliable and as of the date of this document, is believed to be accurate to the best of Stryker's knowledge. Before using the product identified hereon, all of the foregoing information should be carefully considered. The information herein applies only to the product identified hereon and does not relate to its use in combination with any other material or in any process. The information is provided in good faith to comply with applicable laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.



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