

# SAFETY DATA SHEET

Document reference number: MSDS460/470

Issue number: 3/08/2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

## 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**  
Product code(s) & Product Name 460 LISS Concentrate  
470 LISS Ready for Use  
CAS No. Mixture  
EINECS No. Mixture  
Product Description A clear, colourless solution containing 0.1% sodium azide (LISS Concentrate) or 0.01% sodium azide (LISS Ready for Use), Glycine and Sodium salts.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified Use(s) Potentiating agent in blood group serology.  
Uses Advised Against Anything other than the above.
- 1.3 Details of the supplier of the safety data sheet**  
Company Identification Lorne Laboratories Ltd  
Unit 1 Cutbush Park Industrial Estate  
Danehill  
Lower Earley  
Berkshire RG6 4UT  
United Kingdom  
Telephone +44(0) 0118 921 2264  
Fax +44(0) 0118 986 4518  
E-Mail (competent person) [Info@lornelabs.com](mailto:Info@lornelabs.com)
- 1.4 Emergency telephone number** +44(0) 0118 921 2264  
Available 0900 – 1700 (GMT)  
Languages spoken English

## 2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Not classified as hazardous for supply/use.
- 2.2 Label elements** According to Regulation (EC) No. 1272/2008 (CLP)
- Hazard Pictogram(s) None assigned
- Signal Word(s) None assigned
- Hazard Statement(s) None assigned
- Precautionary Statement(s) None assigned
- 2.3 Other hazards** None known.

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Sodium Azide	0.1 - 0.01	26628-22-8	247-852-1	Not yet assigned in the supply chain	Acute Tox. 2; H300 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

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## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

Remove from exposure. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep warm and at rest. Get medical advice/attention if you feel unwell.

Skin Contact

Wash affected skin with soap and water. Remove contaminated clothing and wash clothing before reuse. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact

Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Rinse mouth. Give plenty of water to drink. Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing Media

Non-flammable. As appropriate for surrounding fire. Water spray, foam, dry powder or CO<sub>2</sub>.

Unsuitable extinguishing Media

Do not use water jet. Direct water jet may spread the fire.

### 5.2 Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic vapours.

### 5.3 Advice for fire-fighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Avoid all contact. Do not allow run-off from fire fighting to enter drains or water courses.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid all contact. Ensure suitable personal protection during removal of spillages. See Section: 8

### 6.2 Environmental precautions

Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

Absorb spillage in suitable inert material. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Avoid release to the environment.

### 6.4 Reference to other sections

See Section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid all contact. Use personal protective equipment as required. Ensure adequate ventilation. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

Keep only in the original container/package in a well-ventilated place. Keep away from food, drinks and animal food.

Storage life

Storage temperature is at ambient room temperature.

Incompatible materials

Keep only in the original container/package in a well-ventilated place.

### 7.3 Specific end use(s)

None known.

See Section: 1.2

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## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1</b>	<b>Control parameters</b>	
<b>8.1.1</b>	<b>Occupational Exposure Limits</b>	None assigned.
<b>8.1.2</b>	<b>Biological limit value</b>	Not established.
<b>8.1.3</b>	<b>PNECs and DNELs</b>	Not established.
<b>8.2</b>	<b>Exposure controls</b>	
<b>8.2.1</b>	<b>Appropriate engineering controls</b>	Ensure adequate ventilation. Good hygiene practices and housekeeping measures.
<b>8.2.2</b>	<b>Individual protection measures, such as personal protective equipment (PPE)</b>	Use personal protective equipment as required. Avoid all contact. Keep good industrial hygiene. Wash hands before breaks and after work. Keep work clothes separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place.
	Eye/face protection	Not normally required. Recommended: Wear eye protection with side protection (EN166).
		
	Skin protection	Prolonged, direct contact: Wear impervious gloves (EN374).
		
	Respiratory protection	Not normally required. In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protective equipment should conform to the appropriate EN standard.
		
	Thermal hazards	None anticipated.
<b>8.2.3</b>	<b>Environmental Exposure Controls</b>	Avoid release to the environment.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	
	Appearance	Liquid, colourless
	Odour	Not established.
	Odour Threshold	Not established.
	pH	6.7
	Melting Point/Freezing Point	Not established.
	Initial boiling point and boiling range	Not established.
	Flash Point	Not established.
	Evaporation Rate	Not established.
	Flammability (solid, gas)	Not established.
	Upper/lower flammability or explosive limits	Not applicable.
	Vapour pressure	Not established.
	Vapour density	Not established.
	Relative density	Not established.
	Solubility(ies)	Miscible with water.
	Partition coefficient: n-octanol/water	Not established.
	Auto-ignition temperature	Not established.
	Decomposition Temperature	Not established.
	Viscosity	Not established.
	Explosive properties	Not explosive

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Oxidising properties Not oxidising.

9.2 Other information None known.

## 10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions.  
10.2 Chemical stability Stable for 12 months after the date of production when stored at ambient room temperature.  
10.3 Possibility of hazardous reactions None known. Hazardous polymerisation will not occur.  
10.4 Conditions to avoid Keep away from heat, sources of ignition and direct sunlight.  
10.5 Incompatible materials Strong acids, strong oxidizing agents.  
10.6 Hazardous decomposition product(s) Combustion or thermal decomposition will evolve toxic vapours.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)  
Acute toxicity  
Ingestion Based on available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day  
Inhalation Based on available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: LD50 >20 mg/l.  
Skin Contact Based on available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day  
Skin corrosion/irritation Based on available data, the classification criteria are not met.  
Serious eye damage/irritation Based on available data, the classification criteria are not met.  
Respiratory or skin sensitization Based on available data, the classification criteria are not met.  
Germ cell mutagenicity Based on available data, the classification criteria are not met.  
Carcinogenicity Based on available data, the classification criteria are not met.  
Reproductive toxicity Based on available data, the classification criteria are not met.  
STOT - single exposure Based on available data, the classification criteria are not met.  
STOT - repeated exposure Based on available data, the classification criteria are not met.  
Aspiration hazard Based on available data, the classification criteria are not met.  
11.2 Other information None known.

## 12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Based on available data, the classification criteria are not met.  
Estimated LC50 (96 hour) Fish > 100 mg/l  
12.2 Persistence and degradability Not established. Some of the ingredients are expected to be resistant to biodegradation.  
12.3 Bioaccumulative potential Not established. Predicted to be unlikely.  
12.4 Mobility in soil The product has high mobility in soil. Miscible with water.  
12.5 Results of PBT and VPVB assessment Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.  
12.6 Other adverse effects None known.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national legislation.  
13.2 Additional Information Empty containers may contain hazardous residues. Containers shall be disposed of by incineration as soon as possible.

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## 14. SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA/ICAO</b>
14.1 <b>UN number</b>	None assigned.	None assigned.	None assigned.
14.2 <b>UN proper shipping name</b>	None assigned.	None assigned.	None assigned.
14.3 <b>Transport hazard class(es)</b>	None assigned.	None assigned.	None assigned.
14.4 <b>Packing group</b>	None assigned.	None assigned.	None assigned.
14.5 <b>Environmental hazards</b>	Not classified.	Not classified.	Not classified.
14.6 <b>Special precautions for user</b>	See Section: 2		
14.7 <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.	Not applicable.	Not applicable.
14.8 <b>Additional Information</b>	None.		

## 15. SECTION 15: REGULATORY INFORMATION

15.1 <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1 <b>EU regulations</b>	
Authorisations and/or Restrictions On Use	None.
15.1.2 <b>National regulations</b>	
Germany	Water hazard class: 1
15.2 <b>Chemical Safety Assessment</b>	None.

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

**References:** Existing Safety Data Sheet (SDS).

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

### Disclaimers

Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customers' responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken. The use of the reagent and the interpretation of results must be carried out by properly trained and qualified personnel in accordance with the requirements of the country where the reagent is in use.

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### Annex to the extended Safety Data Sheet (eSDS)

Not applicable

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**Date of First Issue**

28 August 2001