

# MATERIAL SAFETY DATA SHEET

## RF Latex Kit

### 1. Product and Company Information

**Product code + name:** 830A, RF Latex Kit  
**Product description:** A serologic kit for the detection of RF (rheumatoid factor) Antibodies. Latex particles in the reagent will agglutinate (clump) in the presence of rheumatoid factor antibodies  
**Supplier/Manufacturer:** Lorne Laboratories Ltd  
**Address:** Unit 1 Cutbush Park Industrial Estate  
Danehill  
Lower Earley  
Berkshire RG6 4UT  
United Kingdom  
**Phone number:** +44(0) 0118 921 2264  
**Fax number:** +44(0) 0118 986 4518  
**e-mail address:** [info@lornelabs.com](mailto:info@lornelabs.com)  
**Web-site address:** [www.lornelabs.com](http://www.lornelabs.com)

### 2. Composition/Information on the components

Contains no hazardous substances in reportable quantities

Component name	Concentration	R phrases	Classification
Sodium azide	<0.1%	R28, R32, R50/53	Poisonous
N-N-Dimethylformamide	<0.5%	R61, R20/21, R36	Toxic

### 3. Hazard Identification

Classification of the substance or mixture (67/548/CEE or 1999/45/CE):

Kit,R



T, Toxic

R61 May cause harm to the unborn child

For Positive Control: Components from human origin have been tested and found negative for the presence of HbSAg, HCV and antibody to HIV (1/2). However handle cautiously as potentially infectious

CAS	CHEMICAL NAME	%	EC NUMBER EINECS / ELINCS	EC INDEX NUMBER	CLASSIFICATION ACCORDING TO CLP REGULATION	SYM.	R PHRASE
R 68-12-2	N-N-Dimethylformamide	C>0.5	200-679-5	616-001-00-X	Repr.1B Acute Tox.4* Eye Irrit.2	H360D*** H332/H312 H319	T+  R61 R20/21 R36

### 4. First Aid measures

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids. Seek immediate medical advice  
**Skin Contact:** Wash the contacted area with soap and water. Remove contaminated clothing and shoes. Get medical aid if irritation develops or persists  
**Ingestion:** If victim is conscious and alert, wash out mouth with water. Get medical aid. Drink large amounts of water

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**Inhalation:** Remove from exposure and move to fresh air immediately. If breathing is difficult, get medical aid

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

May cause harm to the unborn child.

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

**Eyes:** In the event of irritation, seek medical assistance.

**Skin:** Get medical aid if irritation develops or persists.

**Ingestion:** Seek medical assistance.

**Notes to Physician:** Treat symptomatically and supportively.

## 5. Fire Fighting measures

**Extinguishing Media:** Not flammable. Use media to suit the surroundings

**Unsuitable Extinguishing Media:** Not applicable. Subject to surroundings

**Special hazards of product:** In the event of fire, NO<sub>x</sub> fumes may form  
Precipitate fumes formed with water

**Protective fire fighting equipment:** Suitable clothing and footwear

## 6. Accidental release measures

**Personal Precautions Spillage:** Wear rubber gloves and protective clothing

**Spillages:** Do not inhale the fumes. Avoid contact with the skin, eyes and clothing. Use proper personal protective equipment as indicated in Section 8

**Environmental precautions:** Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains

**Methods and material for containment and cleaning up:**

Sweep up material with absorbent substances and place into a suitable disposal container. Clean well with water

## 7. Handling and Storage

**Handling:** Wear rubber gloves and protective clothing

**Storage:** Storage temperature should be controlled to between 2 and 8°C. Store in the original container securely closed. Keep away from foodstuffs

## 8. Exposure Controls / Personal Protection

VLA-ED: 10 ppm - 30 mg/m<sup>3</sup> dermal resorption (N-N-Dimethylformamide)

**Respiratory Protection:** In the event of fumes forming/aerosols, use suitable respiratory protection

**Hand Protection:** Wear suitable gloves, e.g. latex or plastic gloves

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by European Standard EN166

**Hygiene measures:** Wash hands before breaks and after work. Do not eat, drink or smoke in the workplace.

**9. Physical and Chemical properties**

<b>Physical State:</b>	Liquid
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>pH:</b>	Approximately 8.0-8.4
<b>Flash Point (°C):</b>	Not applicable
<b>Solubility in water (kg/m<sup>3</sup>):</b>	Not applicable
<b>Vapour Pressure (kPa):</b>	Not applicable
<b>Density (kg/m<sup>3</sup>):</b>	Not applicable
<b>Viscosity:</b>	Not applicable
<b>Decomposition Temperature (°C):</b>	Not applicable

**10. Stability and Reactivity**

<b>Reactivity:</b>	Not known
<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Possibility of hazardous reactions:</b>	Not known
<b>Materials to avoid:</b>	High temperatures
<b>Incompatible Materials:</b>	Strong oxidising agents. Halogens. Halides. Halogenated hydrocarbons. Alkaline metals. Nitrates. Metal oxides. Non-metal oxides. Reducing agents. Aluminium tri-ethyl.
<b>Hazardous decomposition products:</b>	In the event of fire: see section 5
<b>Hygiene measures:</b>	Wash hands before breaks and after work. Do not eat, drink or smoke in the workplace

**11. Toxicological Information**

<b>Acute Toxicity:</b>	Under normal circumstances and use, these products are unlikely to be acutely toxic
<b>Skin sensitisation:</b>	Under normal circumstances and use, these products are unlikely to sensitise skin
Quantitative data on the toxicity of this product are not available	
<b>THE FOLLOWING APPLIES TO NN- DIMETHYLFORMAMIDE (pure substance):</b>	
<b>Acute toxicity</b>	

LD50 oral rat : > 5.85 mg/kg 4h  
LD50 skn rat: > 3.160 mg/kg  
LD50 inh rat: 3040 ppm

**Information on toxicological effects:**

Through contact with the eyes: Can cause irritations. Risk of cutaneous absorption.  
If swallowed: gastro-intestinal disorders vomiting. Causes headaches.  
Teratogenic substance.

**12. Ecological Information**

<b>Mobility:</b>	The product is freely miscible with water
<b>Persistence/Degradability:</b>	Some of the ingredients are expected to be resistant to biodegradation

Ecological data for this product is not available.

**THE FOLLOWING APPLIES TO NN- DIMETHYLFORMAMIDE (pure substance):**

<b>Toxicity: EC50 test (mg/l):</b>	Fish (L. Macrochirus) LC50 7100 mg/l (96h) Crustaceans (Daphnia magna) EC50 > 100 mg/l (48h)
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(P. Subcapitata) EC50 > 1000 mg/l (72h)  
**Receptor medium:** Data not known  
**Observations:** The toxicity is not very high  
**Persistence and degradability:** Test: COD = DOC D 100% ThOD 21 d  
**Biotic degradation classification:** Easily biodegradable product  
**Abiotic degradation depending on pH:** Data not available  
**Bioaccumulative potential:**  
**Test:**  
**Bioaccumulation:** Risk 0.3-1.2 (56 d) (C. Carpio)  
**Observations:** Non-bioaccumulable product.  
**Mobility in soil:** Repartition: log P(oct)= -0.85  
**Results of PBT and vPvB assessment:** Data not available.  
**Other adverse effects:** Highly purifiable. If suitable handling conditions are maintained, no ecological problems are to be anticipated.

### 13. Disposal

**Product Disposal:** This material will be classified as 'biological waste' under the COPA (Special Waste) Regulations 1980 and must be disposed of in accordance with those regulations

**Container Disposal:** Empty containers may contain hazardous residues. Containers shall be disposed of by incineration as soon as possible

### 14. Transport information

**UN Number:** Data not available  
**UN Proper Shipping Name:** Data not available  
**ADR/RID – Class:** Data not available  
**IMDG – Packaging Group:** Data not available  
**IMDG – Class:** Data not available  
**IATA Packaging Group:** Data not available  
**IATA – Class:** Data not available

### 15. Labelling Information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EU) 453/2010.

Polish Act/ Regulations: Act of 25 February 2011 / Regulation of the Minister of Health of 28 May 2010.

#### Chemical safety assessment

No chemical safety assessment has been carried out.

### 16. Other Information

**MSDS first issued:** 01 July 2013 including 453/2010  
**MSDS data revised:** 24 March 2016  
**Uses and restrictions:** 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  
This product is intended for *in vitro* diagnostic use only

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### Not for use in humans

#### UK Legislation:

Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions  
SI 1993/1746: Chemicals (Hazard Information and Packaging) Regulations, 1993  
SI 1988/1657: The Control of Substances Hazardous to Health Regulation

#### Hazard statements

**H312:** Harmful in contact with skin

**H319:** Causes serious eye irritation

**H332:** Harmful if inhaled

**H360D:** May damage the unborn child