

# MATERIAL SAFETY DATA SHEET

Last Updated : 1 September, 2011

## 1. PRODUCT AND COMPANY IDENTIFICATION

### ▪ PRODUCT DETAILS

Product code : 17141

Product name : LPS Extraction Kit

### ▪ COMPANY INFORMATION

iNtRON Biotechnology, Inc.

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

### ▪ CONTAINING : HAZARDOUS AND/OR REGULATED COMPONENTS

CHEMICAL NAME	CAS NO.	WEIGHT %	HAZARDOUS
Phenol	108-95-2	10-25	Yes
Guanidine Hydrochloride	1950-01-01	30-75	Yes

## 3. HAZARDS IDENTIFICATION

THE PRODUCT IS CLASSIFIED AND LABELLED IN ACCORDANCE WITH DIRECTIVE 1999/45/EC

CLASSIFICATION :

INDICATION OF DANGER :



### R-PHRASE (S)

R34 - Causes Burns

R32 - Contact with acids liberates very toxic gas

R68 - Possible risk of irreversible effects

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R48/20/21/22 - Harmful : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

## 4. FIRST AID MEASURES

**GENERAL INFORMATION:** No special measures required.

**AFTER INHALATION:** Supply fresh air; consult doctor in case of complaints.

**AFTER SKIN CONTACT:** Generally the product does not irritate the skin.

**AFTER EYE CONTACT:** Rinse opened eye for several minutes under running water.

**AFTER SWALLOWING:** If symptoms persist consult doctor.

## 5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** dry chemical

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:**

Wear self-contained breathing apparatus and protective suit

## 6. ACCIDENTAL RELEASE MEASURES

**PERSON-RELATED SAFETY PRECAUTIONS:** Not required.

**MEASURES FOR CLEANING/COLLECTING:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**ADDITIONAL INFORMATION:** No dangerous substances are released.

## 7. HANDLING AND STORAGE

### HANDLING:

**INFORMATION FOR SAFETY HANDLING:** No special measures required.

**INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:** No special measures required.

### STORAGE:

**REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:** No special requirements.

**INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:** Not required.

**FURTHER INFORMATION ABOUT STORAGE CONDITIONS:** None.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS:

CHEMICAL NAME	EU OEL(TWA)	EU OEL(STEL)	EU Skin Notation	Austria OEL (MAK)
Phenol	2 ppm 7.8mg/m <sup>3</sup>	–	–	2 ppm 7.8mg/m <sup>3</sup>
Guanidine Hydrochloride	–	–	–	–
CHEMICAL NAME	Belgium (TWA)	Ireland (TWA)	Denmark (TWA)	Finland OEL (TWA)
Phenol	2 ppm 7.8mg/m <sup>3</sup>	2 ppm 7.8mg/m <sup>3</sup>	1 ppm 4mg/m <sup>3</sup>	5 ppm 20mg/m <sup>3</sup>
Guanidine Hydrochloride	–	–	–	–

### ENGINEERING MEASURES ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment

**Hand protection impervious gloves.**

Eye protection safety glasses with side-shields

**Skin and body protection Lightweight protective clothing.**

Hygiene measures Handle in accordance with good industrial hygiene and safety practice degradation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### GENERAL INFORMATION

**FORM:** Clear Solution

**COLOR:** Colorless

**ODOR:** Odorless

### CHANGE IN CONDITION

**MELTING POINT/MELTING RANGE:** 215 g/100 ml (20 °C)

**BOILING Point/BOILING RANGE:** -

**FLASH POINT:** Not applicable.

## 10. STABILITY AND REACTIVITY

**THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED:** No decomposition if used according to specification.

**DANGEROUS REACTIONS:** No dangerous reactions known.

**DANGEROUS PRODUCTS OF DECOMPOSITION:** No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

CHEMICAL	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Phenol	270mg/kg	630mg/kg	No Data Available
Guanidine Hydrochloride	475mg/kg	2000mg/kg	5,319mg

### PRIMARY IRRITANT EFFECT:

**ON THE SKIN:** Toxic in contact with skin. Components of the product may be absorbed into the body through the skin.

**ON THE EYE:** Causes burns. Risk of serious damage to eyes.

**SENSITIZATION:** No information available.

**ADDITIONAL TOXICOLOGICAL INFORMATION:**

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

## 12. ECOLOGICAL INFORMATION

**GENERAL NOTES:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13. DISPOSAL CONSIDERATIONS

**PRODUCT:****RECOMMENDATION:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**UNCLEANED PACKAGINGS:**

**RECOMMENDATION:** Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

**IATA**

**PROPER SHIPPING NAME:** Not classified as dangerous in the meaning of transport regulations

**HAZARD CLASS:** No information available

**SUBSIDIARY CLASS:** No information available

**PACKING GROUP:** No information available

**UN-NO:** No information available

## 15. REGULATORY INFORMATION

**IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS, THE PREPARATION IS NON-DANGEROUS IN ACCORDANCE WITH DIRECTIVE 1999/45/EC.**

**INDICATION OF DANGER:** not hazardous

**R-PHRASE(S)**

No information available

**S-PHRASE(S)****INTERNATIONAL INVENTORIES**

CHEMICAL NAME	EINECS	ELINCS	PICCS	ENCS
	Listed			
	TSCA	CHINA	AICS	KECL
		Listed		Listed

## 16. OTHER INFORMATION

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**End of Safety Data Sheet**