

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 ³	–	–	2 ppm 7.8mg/m ³
Guanidine Hydrochloride	–	–	–	–
CHEMICAL NAME	Belgium (TWA)	Ireland (TWA)	Denmark (TWA)	Finland OEL (TWA)
Phenol	2 ppm 7.8mg/m ³	2 ppm 7.8mg/m ³	1 ppm 4mg/m ³	5 ppm 20mg/m ³
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