Reviewed on 2008/09/29

			Reviewed on 2008/09/
1. Product and C	Company Information		
		Iffer containing MgCl2 for	r T7 RNA Polymerase
	iber : N/A(Buffer)		
Company : B	· · · · · ·		
	ONEER CORPORATIO	)N	
		gu, Daejeon 306-220, Kore	a
	one: +82-042-930-		
2. Composition/I	nformation on Ingred	lient	
lazardous/Non-h	azardous Componen	ts	
Chemical Name	CAS No.	EINECS No.	Weight %
Tris HCI	1185-53-1		≥ 1
Water, Distilled	7732-18-5	231-791-2	60-100
Xi – Irritant R36/38 – Ir	ritating to eyes and s	skin	
4. First Aid Mea	sures.		
	Wash off immediately		
-	-		the eyelids, for at least 15 minutes
-		outh to an unconscious pers	on
Inhalation : Mo			
Notes to physi	cian : Treat symptom	atically	
5. Fire Fighting	Measures.		
Suitable exting	guishing media : Dry	chemical	
Special protec	tive equipment for fi	refighters.: Wear self-contai	ined breathing apparatus and protect
suit			

suit

# 6. Accidental Release Measures

Personal precautions : Use personal protective equipment

Methods for cleaning up : Soak up with inert absorbent material

7. Handling / Storage

Handling : No special handling advice required

**Storage :** Keep in properly labelled containers

8. Exposure Controls / Personal Protection

Chemical Name	EU OEL(TWA)	EU OEL(STEL)	EU Skin Notation	Austria OEL(MAK)
Tris HCI	-	-	-	-
Water, Distilled	-	-	-	-

Chemical Name	Belgium(TWA)	Denmark(TWA)	Finland OEL(TWA)	France OEL(VME)
Tris HCI	-	-	-	-
Water, Distilled	-	-	-	-

Chemical Name	Germany OEL(TWA)	Ireland(TWA)	Italy OEL(TWA)	
Tris HCI	-	-	-	
Water, Distilled	-	-	-	

Chemical Name	Netherlands OEL(MAC)	Spain OEL(TWA)	United Kingdom
Tris HCI	-	-	-
Water, Distilled	-	-	-

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

Environmental exposure controls : Prevent product from entering drains					
9. Physical / Chemi	ical Properties				
General Informat	ion				
Form : Liquid					
Important Health	Safety and Environme	ental Information			
Boiling point/r	range °C No	data available °F No data a	vailable		
Melting point/	range °C No	data available °F No data a	available		
Flash point	° <b>C</b> No	data available °F No data a	available		
Autoignition temperature		°C No data available °F No data available			
Oxidizing prop	perties : No information	available			
Water solubili	ty: No data available				
10. Stability / Reac	tivity				
-	under normal conditions	<u>.</u>			
•	d : No information availa				
		lo information available			
	Hazardous polymerisati				
11. Toxicological II	nformation				
Acute toxicity					
Chemical Name	LD50(oral, rat/mouse)	LD50(dermal, rat/rabbit)	LC50(inhalation, rat/mouse		
Tris HCI	No data available	No data available	No data available		
Water, Distilled	No data available	No data available	No data available		
Principle Routes	of Exposure/				
Potential Health e	effects				
Eyes : May cause eye irritation with susceptible persons.					
Skin : May cause skin irritation in susceptible persons.					
Inhalation : No information available					
Ingestion : No	Ingestion : No information available				

### Specific effects

Carcinogenic effects : No information available

Mutagenic effects : No information available

Reproductive toxicity : No information available

Sensitization : No information available

Taeget Organ Effects : Eyes. Skin.

### 12. Ecological Information

Ecotoxicity effects : No information available.

Mobility : No information available.

Biodegradation : No information available.

Bioaccumulation : No information available.

13. Disposal Considerations

Dispose of in accordance with local regulations.

14.Transport Information

ΙΑΤΑ

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

Korea regulatory information

None of the ingredients listed.

In accordance with local and national regulations, The product is classified and labelled in accordance with Directive 1999/45/EC.

#### Indication of danger

Xi - Irritant



R -phrase(s)

No information available

R36/38 - Irritating to eyes and skin

S -phrase(s)

S24/25 - Avoid contact with skin and eyes

## International Inventories

Chemical Name	EINECS	ELINCS	PICCS	ENCS	
Tris HCI	Listed		Listed		
Water, Distilled	Listed		Listed		
Chamical Name	TROA	CLUNIA	4100	KEOL	

Chemical Name	TSCA	CHINA	AICS	KECL	
Tris HCI	Listed	Listed	Listed	Listed	
Water, Distilled	Listed	Listed	Listed	Listed	

# 16. Other Information

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features. BIONEER is not held liable for any damage resulting from handing or from contact with the above products.