

Generated on: 24.06.2013

Revision date: 05.08.2016

Revision number: 02

MSDS number: IND-0044

Page: 1/8

**PREMSCOUR NBL 140****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****Trade name:** Premscour Nbl 140**Chemical name:** Enzyme preparation**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Enzyme preparations are biocatalysts used in a variety of industrial processes and in certain consumer products.

**1.3 Details of the supplier of the safety data sheet**

Indigo Kimya ve Tekstil Sanayi Tic.Ltd.Şti.

**Telephone:** 0212 486 07 07**Fax:** 0212 486 30 22**e-mail:** [info@indigokimya.com.tr](mailto:info@indigokimya.com.tr)**Web:** [www.indigokimya.com](http://www.indigokimya.com)**Emergency telephone number:** The poison information center 114**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

Respiratory Sensitization	Category 1
---------------------------	------------

**Classification according to EU Directives 64/548/EEC or 1999/45/EC see section 16.****2.2 Label elements****Hazard Statements**

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

**Precautionary statements**

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P285 - In case of inadequate ventilation wear respiratory protection

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor /physician

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

**Signal word:**

Danger

**2.3 Other hazards**

Repeated inhalation of enzyme dust or aerosols resulting from improper handling may induce sensitization and may cause allergic type 1 reactions in sensitized individuals. Repeated inhalation of enzyme dust or aerosols resulting from improper handling may induce sensitization and may cause allergic type 1 reactions in sensitized individuals

**SAFETY DATA SHEET**

Generated on: 24.06.2013

Revision date: 05.08.2016

Revision number: 02

MSDS number: IND-0044

Page: 2/8

**PREMSCOUR NBL 140**

Mild skin irritation

Mild eye irritation

Effects of overexposure See Section 4

r additional Toxicological information

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**3.1 Substance**

n.a.

**3.2 Mixture**

<b>Pectate Lyase (aep)</b>	
EINECS, ELINCS, NLP	232-766-9
CAS	9015-75-2
Weight %	0.8-2
Classification according to Directive 67/548/EEC	Xn, R42
Classification according to Regulation (EC) 1272/2008 (CLP)	Resp. Sens. 1;H334
<b>Proxel</b>	
EINECS, ELINCS, NLP	220-120-9
CAS	2634-33-5
Weight %	0.03 - 0.4
Classification according to Directive 67/548/EEC	Harmful, Xn, R22 Irritant, Xi, R38 Irritant, Xi, R41 Sensitizing, R43 Dangerous for the environment, N, R50
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)

Active enzyme protein (aep) is the part of the enzyme concentrate contributing to the classification of the mixture.

Proxel = 20% Benz-iso-thiazoline-3-one, CAS-No 2634-33-5

Generated on: 24.06.2013

Revision date: 05.08.2016

Revision number: 02

MSDS number: IND-0044

Page: 3/8

**PREMSCOUR NBL 140****SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**Inhalation

Effects May cause allergic respiratory reaction  
Symptoms Shortness of breath, wheezing and coughing  
The effect of inhalation may be delayed  
First Aid Remove person to fresh air. If signs/symptoms continue, get medical attention  
Show this safety data sheet to the doctor in attendance

Skin contact

Effects May cause slight irritation.  
Symptoms Slight irritation.  
First Aid Remove and wash contaminated clothing before re-use. Wash off immediately  
with plenty of water. If symptoms persist, call a doctor. Show this safety data  
sheet to the doctor in attendance.

Eye contact

Effects May cause slight irritation.  
Symptoms Slight irritation  
First Aid Hold eye open and rinse slowly and gently with water for 15-20 min. Remove  
contact lenses, if present, after the first five minutes, then continue rinsing eye.  
If symptoms persist, call a doctor. Show this safety data sheet to the doctor in  
attendance

Ingestion

Effects Ingestion may cause gastrointestinal irritation.  
Symptoms Irritation  
First Aid Rinse mouth with water and drink plenty of water. If symptoms persist, call a  
doctor. Show this safety data sheet to the doctor in attendance.

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

See section 4.1

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

Notes to physician Treat symptomatically

Generated on: 24.06.2013

Revision date: 05.08.2016

Revision number: 02

MSDS number: IND-0044

Page: 4/8

**PREMSCOUR NBL 140****SECTION 5: FIRE-FIGHTING MEASURES****5.1 Suitable extinguishing media:**

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
------------------------------	---

Unsuitable Extinguishing Media	none
--------------------------------	------

Hazardous combustion products	none
-------------------------------	------

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

May cause allergic respiratory reaction

**5.3 Advice for firefighters**

Self-contained breathing apparatus

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

For personal protection see section 8

**6.2 Environmental precautions**

Collect spillage.

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

Avoid formation of dust and aerosols

Spilled preparation should be removed immediately to avoid formation of dust from dried preparation.

Take up by mechanical means preferably by a vacuum cleaner equipped with a high efficiency filter. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing (avoid formation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing.

**6.4 Reference to other sections**

For personal protection see section 8

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid formation of dust and aerosols

Ensure adequate ventilation

Liquid enzyme preparations are dustfree preparations. However, inappropriate handling may cause formation of dust or aerosols.

**SAFETY DATA SHEET**

Generated on: 24.06.2013

Revision date: 05.08.2016

Revision number: 02

MSDS number: IND-0044

Page: 5/8

**PREMSCOUR NBL 140****7.2 Conditions for safe storage, including any incompatibilities**

Keep tightly closed in a dry and cool place.

Temperature 0-25 °C (32-77 °F)

In unbroken packaging - dry and protect from the sun. The product has been formulated for optimal stability. Extended storage or adverse conditions such as higher temperatures or higher humidity may lead to a higher dosage requirement.

**7.3 Specific end use(s)**

Handle in accordance with good industrial hygiene and safety practice

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Not applicable

Chemical Name	DNEL Dermal Acute Local (Workers)	DMEL Inhalation Long term Local (Workers)
Pectate Lyase (aep)	-	DMEL = 60 ng/m <sup>3</sup>

Derived Minimal Effect Level (DMEL)

**8.2 Exposure controls**

Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Respiratory Protection	In case of insufficient ventilation wear an approved mask with a particle filter type P3 used according to the manufactures instruction
Eye protection	Safety glasses with side-shields
Skin Protection	Long sleeved clothing
Hand Protection	Protective gloves of e.g. nitrile rubber or neoprene (thickness > 0.3 mm) according to EN 374-3. Expected breakthrough time: > 4 hours. The recommendation is a qualified estimate based on the knowledge of the components in the mixture
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practices
Environmental exposure	Local authorities should be advised if significant spillages cannot be Waste water should be discharged to sewage treatment plant

Generated on: 24.06.2013

Revision date: 05.08.2016

Revision number: 02

MSDS number: IND-0044

Page: 6/8

**PREMSCOUR NBL 140****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

**Physical state:** Liquid  
**Colour:** Brown  
**Odour:** Slight fermentation odor  
**pH:** Not relevant

**9.2 Other information**

No information available

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Not relevant

**10.2 Chemical stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

None under normal processing

**10.4 Conditions to avoid**

None

**10.5 Incompatible materials**

None

**10.6 Hazardous decomposition products**

None

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Pectate Lyase (aep)**

Acute oral toxicity	Respiratory sensitization	Genetic toxicity	Skin corrosion/irritation	Serious eye damage/eye irritation
LD50: > 2000 mg/kg bw (OECD TG 401, 420)	Sensitizer (Human experience)	No indication of mutagenic effects (OECD TG 471,476)	Not irritating (OECD TG 404)	Not irritating (OECD TG 405)

## SAFETY DATA SHEET

Generated on: 24.06.2013

Revision date: 05.08.2016

Revision number: 02

MSDS number: IND-0044

Page: 7/8

### PREMSCOUR NBL 140

#### Proxel

Acute oral toxicity	Respiratory sensitization	Genetic toxicity	Skin corrosion/irritation	Serious eye damage/eye
Harmful if swallowed	no data available	No mutagenic effect	Causes burns	Risk of serious damage to eyes

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Pectate Lyase (aep)

Daphnia, acute	Acute fish toxicity =	Algae, Acute
EC50 (48 hours): 31.7 - 457 mg aep/l (OECD TG 202)	LC50 (96 hours): 58.3 - 326.7 mg aep/l (OECD TG 203)	ErC50 (72 hours): >= 5.2 mg aep/l (OECD TG 201)

#### Proxel

Daphnia, acute	Acute fish toxicity =	Algae, Acute
EC50 (48 hours): 2.94 mg/l (OECD TG 202)	2.18mg/l (OECD TG 203)	ErC5 (72 hours): 0.11 mg/l (OECD TG 201)

### 12.2 Persistence and degradability

#### Pectate Lyase (aep)

Persistence and degradability	Partition coefficient (n-octanol/water)
Readily biodegradable (OECD 301)	LogPow: <0

#### Proxel

Persistence and degradability	Partition coefficient (n-octanol/water)
Inherently biodegradable	—

### 12.3 Bioaccumulative potential

#### Pectate Lyase (aep)

Bioaccumulative potential
Does not bioaccumulate

#### Proxel

Bioaccumulative potential
Bioaccumulation is unlikely

### 12.4 Mobility in soil

Not relevant

### 12.5 Results of PBT and vPvB assessment

not determined

### 12.6 Other adverse effects

No information available

**SAFETY DATA SHEET**

Generated on: 24.06.2013

Revision date: 05.08.2016

Revision number: 02

MSDS number: IND-0044

Page: 8/8

**PREMSCOUR NBL 140****SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of in accordance with local regulations

Waste water should be discharged to sewage treatment plant

Waste codes should be assigned by the user based on the application for which the product was used

**SECTION 14: TRANSPORT INFORMATION**

No dangerous goods according to transport regulations (IMDG, IATA, ADR/RID).

No special precautions required

**14.1**

UN number Not applicable

**14.2**

UN proper shipping name Not applicable

**14.3**

Transport hazard class(es) Not applicable

**14.4**

Packing group Not applicable

**14.5**

Environmental hazards Not applicable

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

WGK Classification 1

**15.2 Chemical safety report**

No chemical safety assessment has been carried out

**SECTION 16: OTHER INFORMATION**

R42 - May cause sensitization by inhalation

**GHS-Classification** The GHS calculation method has been used for classification of this mixture.**Classification and labelling according to Directive 67/548/EEC****Symbol(s)** Xn - Harmful**R-code(s)** R42

Information in this MSDS are based on our current knowledge and the only possible use includes safety requirements.

This information does not guarantee any property. To comply with applicable laws and regulations with the product / the responsibility of the wearer.