

## SAFETY DATA SHEET

PRODUCT NAME: DEIONISING RESIN

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name: DEIONISING RESIN

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Water treatment

#### 1.3 Details of the supplier of the safety data sheet:

Erodex (UK) Ltd,  
Tipper Industrial Estate, Park Road,  
Halesowen, West Midlands, B63 2RH  
Telephone: +44 (0)1384 892011  
Responsible person E-mail address: sales@erodex.com

#### 1.4 Emergency telephone number

Emergency Telephone number: +44 (0)1384 892011 (8AM-5PM Mon-Fri UK)

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

This material is a mixture

#### Classification according to Regulation (EC) No. 1272/2008 (EU 'CLP' regulation):

Serious eye irritation, Category 2 Causes serious eye irritation

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 (EU 'CLP' regulation):

Hazard pictograms:



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Signal word:

Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

**Prevention:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P305 + P351 +

P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention

**Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

### 2.3 Other hazards

Not applicable

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical nature:

Resin

Name	EC No.	CAS No.	Content (%)	Classification
Water	231-791-2	7732-18-5	50	Not classified
Polystyrene sulphonic acid	-	69011-20-7	30	H319
Polyvinyl benzyl trimethyl ammonium hydroxide	-	69011-18-3	20	H319

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General advice:**

No hazards which require special first aid measures.

**If inhaled:**

Move to fresh air.

Keep patient warm and at rest.

Give oxygen or artificial respiration if needed.

When symptoms persist or in all cases of doubt seek medical advice.

**In case of skin contact:**

Take off contaminated clothing and shoes immediately.

Wash off immediately with plenty of water for at least 15 minutes.

If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Wash contaminated clothing before re-use.

**In case of eye contact:**

Rinse immediately with plenty of water for at least 15 minutes.

Keep eye wide open while rinsing.

Immediate medical attention is required.

**If swallowed:**

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If you feel unwell, seek medical advice (show the label where possible).

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

Symptoms: See chapter

11. Toxicological information

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

Treatment: Treat symptomatically.

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### SECTION 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Carbon dioxide (CO<sub>2</sub>)

Water spray

#### Unsuitable extinguishing media:

Do NOT use water jet.

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

Specific hazards during firefighting:

The product is not flammable.

Burning produces noxious and toxic fumes.

#### 5.3 Advice for fire-fighters

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

Further information:

Standard procedure for chemical fires.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Ensure adequate ventilation.

Avoid contact with the skin and the eyes.

Refer to protective measures listed in sections 7 and 8.

Wear protective gloves/protective clothing/eye protection/face protection.

Take off contaminated clothing and shoes immediately.

Wash contaminated clothing before re-use.

#### 6.2 Environmental precautions

Environmental precautions:

The product should not be allowed to enter drains, water courses or the soil.

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

Methods for cleaning up:

Soak up with inert absorbent material: sand.

After cleaning, flush away traces with water.

: Keep in suitable, closed containers for disposal.

Pick up and transfer to properly labelled containers.

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### 6.4 Reference to other sections

Additional advice:

See chapter

8. Exposure controls/personal protection  
13. Disposal considerations

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling:

Avoid formation of aerosol.

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in original container.

: Keep in a dry, cool and well-ventilated place.

Do not freeze.

Other data:

No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Not relevant

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

Personal protective equipment

Respiratory protection:

No personal respiratory protective equipment normally required.

Hand protection:

For prolonged or repeated contact use protective gloves.

Eye protection:

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Tightly fitting safety goggles

Skin and body protection:

Lightweight protective clothing

Hygiene measures:

General industrial hygiene practice.

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Environmental exposure controls

General advice:

No special environmental precautions required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance:	Fine granule (ball)
Colour:	Yellow
Odour:	Slight
pH:	5.3 (at at 25°C, 50.0 g/l )
Melting point:	> 350 °C
Initial boiling point and boiling range:	Not applicable
Flash point:	Not applicable
Evaporation rate:	No data available
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility(ies):	Slightly soluble in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available

#### 9.2 Other information

Oxidising potential	Note:	Not relevant
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### SECTION 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

None known.

#### 10.2 Chemical stability

Stable under recommended storage conditions

#### 10.3 Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions are considered unlikely

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### 10.4 Conditions to avoid

Conditions to avoid:

None known.

### 10.5 Incompatible materials

Materials to avoid:

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products:

Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

Thermal decomposition:

Note: None known

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity:

LD50 Oral  
Remarks: no data available

Acute inhalation toxicity:

LC50 Inhalation  
Remarks: no data available

Acute dermal toxicity:

LC50 Dermal  
Remarks: no data available

#### Skin corrosion/irritation

Skin irritation:

Remarks: no data available

#### Serious eye damage/eye irritation

Eye irritation:

Remarks: Causes serious eye irritation

#### Respiratory or skin sensitization

Sensitisation:

Remarks: no data available

#### Germ cell mutagenicity

Germ cell mutagenicity :

Not believed to be mutagenic

Carcinogenicity:

Not believed to be carcinogenic

Teratogenicity:

Not believed to be reprotoxic

#### Toxicology Assessment

Further information:

No data available

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### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Toxicity to fish:

Remarks: no data available

#### 12.2 Persistence and degradability

Biodegradability:

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Remarks: no data available

#### 12.3 Bioaccumulative potential

Bioaccumulation:

DEIONISING RESIN

Remarks: no data available

#### 12.4 Mobility in soil

Mobility:

DEIONISING RESIN

Remarks: no data available

#### 12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

#### 12.6 Other adverse effects

Additional ecological information:

No information on ecology is available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Product:

Dispose of in accordance with local regulations.  
Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging:

Dispose of as unused product.

### SECTION 14. TRANSPORT INFORMATION

14.1. UN number:

N/A

	ADR/RID	ADN	IMDG	IATA
14.2. UN proper shipping name		Not classified as a dangerous good for transport		
14.3. Transport hazard class(s)	N/A	N/A	N/A	N/A
14.4. Packing group	N/A	N/A	N/A	N/A
14.5. Environmental hazards	N/A	N/A	Marine pollutant: No	N/A



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### 14.6. Special precautions for user

None identified

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

No information available

## SECTION 15. REGULATORY INFORMATION

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

None identified

### 15.2. Chemical safety assessment

Not applicable

## SECTION 16. OTHER INFORMATION

### ANNEX

Exposure scenarios for this material are not available.

### Abbreviations:

(Not all abbreviations are used in this SDS.)

AC	Article category
ADR	European agreement concerning the international carriage of dangerous goods by road
AND	European agreement concerning the international carriage of dangerous goods by inland waterways
BSAF	Bio soil accumulation factor
BCF	Bio concentration factor
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging
CMR	Carcinogenic, mutagenic or toxic for reproduction
CSA/CSR	Chemical safety assessment / Chemical safety report
D50	Median particle size
DNEL	Derived no effect level
DSD	Dangerous Substance Directive
EC10	Concentration of a substance where 10% of the population is affected
EC50	Concentration of a substance where 50% of the population is affected
ECHA	European chemicals agency
EINECS	EU list of existing chemical substances
EmS	Emergency schedule
ERC	Environmental release category
ES	Exposure scenario
eSDS	Extended safety data sheet
FOREGS	Forum of European Geological Surveys

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GHS	Globally harmonised system
HERAG	Health risk assessment guidance for metals
IATA-DGR	International air transport association - dangerous goods regulations
ICAO	Technical Instructions for the Safe Transport of Dangerous Goods by Air
IU	Identified use
IUPAC	International Union of Pure and Applied Chemistry
IBC code	International code for the construction and equipment of ships carrying dangerous chemicals in bulk
IMDG	International maritime dangerous goods
KP	Partition coefficient
LC10	Lethal concentration of a substance that can be expected to cause death in 10% of the population
LC50	Lethal concentration of a substance that can be expected to cause death in 50% of the population
LD50	Lethal dose of a substance that can be expected to cause death in 50% of the population
MARPOL 73/78	International convention for the prevention of pollution from ships, 1973 as modified by the protocol of 1978
MMAD	Mass median aerodynamic diameter
NO(A)EC	No observed (adverse) effect concentration
NO(A)EL	No observed (adverse) effect level
OECD	Organisation for economic co-operation and development
OEL	Occupational exposure limit
PBT	Persistent, bioaccumulative, and toxic
PC	Product category
PNEC	Predicted no-effect concentration
PROC	Process category
REACH	Registration, evaluation, authorisation and restriction of chemicals (i.e. Regulation (EC) No. 1907/2006)
RID	International rule for transport of dangerous substances by railway
SDS	Safety data sheet
STOT	Specific target organ toxicant
STP	Sewage treatment plant
SU	Sector of end use
TWA	Time weighted average
vPvB	Very persistent, very bioaccumulative

### Full text of H-Statements

H319: Causes serious eye irritation.

This safety data sheet is compliant with Regulation (EC) No 1907/2006 (REACH) (including the amendment, Regulation (EU) No 453/2010 and Regulation (EC) No. 1272/2008 (EU CLP).

SDS prepared by the Regulatory Facilitation Company (ReFaC)  
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