

SAFETY DATA SHEET

PRODUCT NAME: VITOL-KN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier VITOL-KN

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

Identified use Electrical discharge machining fluid of water

1.3. Details of the supplier of the safety data sheet

Erodex (UK) Ltd,

Tipper Industrial Estate, Park Road, Halesowen, West Midlands B63 2RH

+44 (0)1384 892011

sales@erodex.com

www.erodex.com

1.4. Emergency telephone number

+44 (0)1384 892011

(Monday - Friday 8AM - 5PM)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards: Not classified

Human health Not classified

Environment Not classified

Classification (1999/45/EEC) Not classified

The full text for all R-phrases and hazard statements are displayed in Section 16

2.2. Label elements

Label in accordance with (EC) No. 1272/2008

Supplemental label information

No pictogram required.

EUH210 Safety data sheet available on request

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

n/a

#### 3.2. Mixtures

Name	Content	CAS-No	EC No.	Classification	Classification
Benzotriazol	1-5%	95-14-7	202-394-1	Xn;R22 (67/548/EEC)	Acute Tox. 4 - H302 (EC 1272/2008)
Dodecanedioic acid	1-5%	693-23-2	211-746-3	Xi;R36 (67/548/EEC)	Eye Irrit. 2 - H319 (EC 1272/2008)

The full text for all R-phrases and hazard statements are displayed in Section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### Inhalation

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

##### Ingestion

Immediately rinse mouth and provide fresh air. Drink a few glasses of water or milk. DO NOT INDUCE VOMITING! Get medical attention if any discomfort continues. Do not give victim anything to drink if he is unconscious.

##### Skin

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

##### Eye contact

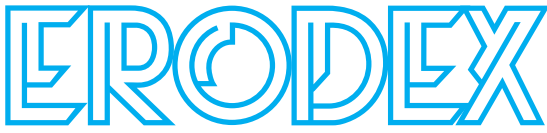
Immediately rinse with water for several minutes. Get medical attention if any discomfort continues.

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

No information available

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

No specific recommendations.



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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Extinguishing media:

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

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

Hazardous combustion products

When heated, vapors/gases hazardous to health may be formed.

#### 5.3. Advice for firefighters

Special firefighting procedures

Keep up-wind to avoid fumes. Containers close to fire should be removed or cooled with water.

Protective equipment for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapors and contact with skin and eyes. Provide adequate ventilation.

#### 6.2. Environmental precautions

Avoid discharge into water courses or onto the ground.

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

Dam and absorb spillage with sand, sawdust or other absorbent. Collect in containers and seal securely.

#### 6.4. Reference to other sections

For waste disposal, see Section 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid inhalation of vapors/spray and contact with skin and eyes. Eye wash facilities and emergency shower must be available when handling this product.

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

Store in tightly closed original container in a dry and cool place.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Ingredient comments

No exposure limits noted for ingredient(s).

### 8.2. Exposure controls

Protective equipment



Process conditions Use engineering controls to reduce air contamination to permissible exposure level.  
Provide eyewash, quick drench.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection

Use protective gloves made of: Impermeable material.

Eye protection

Wear approved safety goggles.

Hygiene measures

When using do not eat, drink or smoke. Wash hands after handling. Promptly remove any clothing that becomes contaminated. Wash contaminated clothing before reuse.

Skin protection

Wear full protective clothing.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Information on basic physical and chemical properties

Appearance	Liquid
Color	Colorless to pale yellow
Odor	No information available
Solubility	Soluble in water
Initial boiling point and boiling range (°C)	Not available
Melting point (°C)	Not available
Relative density	1.01 15°C
Vapor density (air=1)	Not available
Vapor pressure	Not available
Evaporation rate	Not available
pH-value, conc.	Solution 8
pH-value, diluted solution	Not available
Viscosity	0.75 m <sup>2</sup> /s 40°C
Decomposition temp. (°C)	Not available
Odor threshold, lower	Not available
Odor threshold, upper	Not available
Flash point (°C)	Not available
Auto ignition temperature (°C)	Not available
Flammability limit - lower(%)	Not available
Flammability limit - upper(%)	Not available
Partition coefficient (n-octanol/water)	Not available
Explosive properties	Not available
Other flammability	Not available
Oxidizing properties	Not available

#### 9.2. Other information

Not known

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

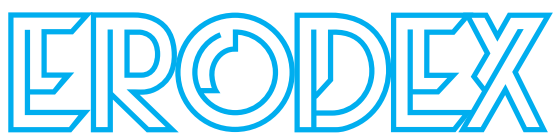
No specific reactivity hazards associated with this product.

#### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

#### 10.3. Possibility of hazardous reactions

Not known.



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### 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

No incompatible groups noted.

### 10.6. Hazardous decomposition products

Not known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity

Acute Toxicity (oral LD50)

> 4500 mg/kg

Rat Acute Toxicity (dermal LD50)

> 5000 mg/kg Rat

Acute Toxicity (inhalation LC50)

> 4.9 mg/l (dust/mist) Rat

Skin corrosion/irritation

Not available

Serious eye damage/irritation

Not available

Respiratory or skin sensitization

Respiratory sensitization

Not available

Skin sensitization

Not available

Germ cell mutagenicity

Genotoxicity - in vitro

Not available

Carcinogenicity

Carcinogenicity

Not available

Reproductive toxicity

Reproductive toxicity – fertility

Not available

Specific target organ toxicity - single exposure

STOT - single exposure

Not available

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Not available

Aspiration hazard

Viscosity

Not available

## SECTION 12: ECOLOGICAL INFORMATION

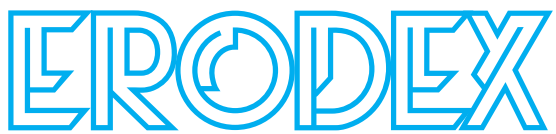
Ecotoxicity

There are no data on the ecotoxicity of this product.

### 12.1. Toxicity

Acute fish toxicity

No data available.



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### 12.2. Persistence and degradability

Degradability

No data available.

### 12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

### 12.4. Mobility in soil

Mobility

The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

Not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORT INFORMATION

Not regulated

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

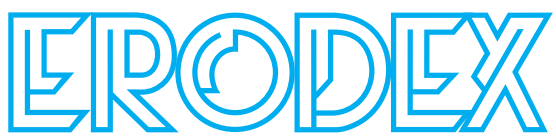
Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.



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### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: REGULATORY INFORMATION

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

EU legislation Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

(EC) No 1907/2006 (REACH).

(EC) No 1272/2008 (CLP).

(EU) No 453/2010.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

Risk phrases in full

NC Not classified

R22 Harmful if swallowed.

R36 Irritating to eyes.

Hazard statements in full

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

### Disclaimer

This information relates specifically to the product designated and may not be valid for the product when used in combination with any other materials or products or in a particular process. The information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to review this information, satisfy itself as to its suitability and completeness and pass on the information to its employees or customers in accordance with applicable federal, state or local hazard communications requirement. We do not accept responsibility for any loss or damage which may occur from the use of this information.