

T H E L E A D I N G E D G E

PRODUCT DATA SHEET

SAFETY DATA SHEET

PRODUCT NAME: VITOL-KS

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

1.1. Product identifier VITOL-KS

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

(Weekdays 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

No pictogram required.

Supplemental label information

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	0.5 - 1.5 %	95-14-7	202-394-1	Xn;R22 (67/548/EEC)	Acute Tox. 4 - H302 (EC 1272/2008)
Dodecanedioic acid	0.5 - 1.5 %	693-23-2	211-746-3	Xi;R36 (67/548/EEC)	Eye Irrit. 2 - H319 (EC 1272/2008)
Propane-1,2-diol	10 - 15 %	57-55-6	200-338-0	Not classified. (67/548/ EEC)	Not classified. (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

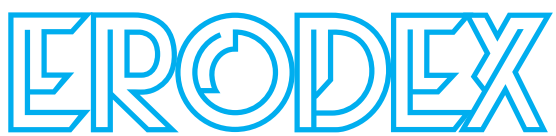
Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues.

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

Use foam, carbon dioxide, dry powder or water fog for extinction.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Wear suitable protective clothing. Use water SPRAY only to cool containers! Do not put water on leaked material.

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. Risk of contact: Wear protective gloves and goggles/face shield. Avoid heat, flames and other sources of ignition.

6.2. Environmental precautions

Avoid discharge into water courses or onto the ground. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container.

6.3. Methods and material for containment and cleaning up

Collect and dispose of spillage as indicated in section 13. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Dam and absorb spillage with sand, sawdust or other absorbent.

6.4. Reference to other sections

For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear protective clothing as described in Section 8 of this safety data sheet.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry and cool place. Avoid water on spilled material or leaking containers. Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidizers.

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

Name	STD	TWA - 8 hours	STEL - 15 Min
Propane- 1,2-diol	WEL	150 ppm	10 mg/m3

Ingredient comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment



Respiratory equipment

Provide adequate general and local exhaust ventilation.

Hand protection

Wear protective gloves..

Eye protection

Wear approved safety goggles. Eye wash facilities and emergency shower must be available when handling this product.

Hygiene measures

When using do not eat, drink or smoke. Wash hands after handling. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes wet or contaminated.

Skin protection

Wear apron or protective clothing in case of contact.

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	Odorless
Solubility	Soluble in water
Initial boiling point and boiling range (°C)	Not available
Melting point (°C)	Not available
Relative density	1.011 15°C
Vapor density (air=1)	Not available
Vapor pressure	Not available
Evaporation rate	Not available
pH-value, conc.	Solution 7.6 25°C
pH-value, diluted solution	Not available
Viscosity	0.925 m ² /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

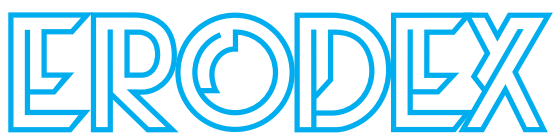
SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reaction with: Strong oxidizing substances.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.



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10.3. Possibility of hazardous reactions

Reaction with: Strong oxidizing substances.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong oxidizing substances.

10.6. Hazardous decomposition products

Not known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

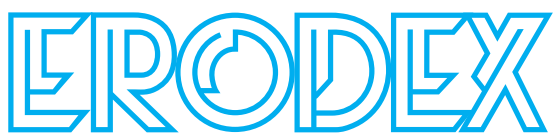
Acute Toxicity (oral LD50)	> 4500 mg/kg Rat
Acute Toxicity (dermal LD50)	> 5000 mg/kg Rat
Acute Toxicity (inhalation LC50)	> 4.9 mg/l (dust/mist) Rat
Skin corrosion/irritation	Not available
Serious eye damage/irritation	Not available
Respiratory or skin sensitization	
Respiratory sensitization	Not available
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
General information	No specific health warnings noted

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute fish toxicity

No data available.



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12.1. Toxicity

Acute fish toxicity

No data available.

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

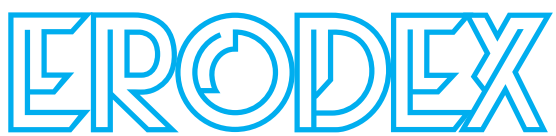
Not applicable.

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.