

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

#### 1.1. Product identifier

Product name: EDM HDX

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

Use of substance / mixture: Suitable for spark erosion or electro discharge machining.

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

Erodex (UK) Ltd  
Park Road,  
Tipper Industrial Estate,  
B63 2RH  
+44 (0)1384 892011  
sales@erodex.com

#### 1.4. Emergency telephone number

Emergency tel: +44 (0)8444 743317 (Office hours only)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification under CLP: Asp. Tox. 1: H304  
Most important adverse effects: May be fatal if swallowed and enters airways.

#### 2.2. Label elements

Label elements under CLP:  
Hazard statements: H304: May be fatal if swallowed and enters airways.  
Signal words: Danger  
Hazard pictograms: GHS08: Health hazard



Precautionary statements: P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P331: Do NOT induce vomiting.  
P405: Store locked up.  
P501: Dispose of contents/container to hazardous or special waste collection point.

## 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Hazardous ingredients:  
HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS- REACH registered number(s):  
01-2119456620-43-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
926-141-6	64742-47-8	-	Asp. Tox. 1: H304	>90%

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Get immediate medical attention.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: Inhalation of vapours may cause irritation of nose, throat and airway.

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

Immediate / special treatment: In all cases of doubt, or when symptoms persist, seek medical attention.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

Exposure hazards: In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

### 7.3. Specific end use(s)

Specific end use(s): No data available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Workplace exposure limits: No data available.

DNEL /PNEC Values

DNEL / PNEC No data available.

### 8.2. Exposure controls

Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	If ventilation is insufficient, suitable respiratory protection must be provided.
Hand protection:	Impermeable gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Impermeable protective clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

State:	Liquid
Colour:	Colourless
Odour:	Barely perceptible odour
Evaporation rate:	No data available.
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Insoluble
Also soluble in:	Most organic solvents.
Viscosity:	Non-viscous
Kinematic viscosity:	1- 2.5
Viscosity test method:	Kinematic viscosity in 10-6 m <sup>2</sup> /s at 40°C (ISO 3104/3105)
Boiling point/range°C:	190- 280
Melting point/range°C:-	25
Flammability limits %: lower:	0.5
upper:	6.0
Flash point°C:	> 77
Part.coeff. n-octanol /water:	No data available.
Autoflammability°C:	> 200
Vapour pressure:	0.15 hPa 20
Relative density:	0.805
pH:	No data available.
VOC g/ l:	No data available.

### 9.2. Other information

Other information: No data available.

## SECTION 10: REACTIVITY AND STABILITY

### 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

Conditions to avoid: Heat. Flames. Sources of ignition. Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

Haz. decomp. products: In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

Hazardous ingredients:

HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS

Route	Species	Test	Value	Units
ORL	RAT	LD50	>5000	mg/kg
SKN	RBT	LD50	>2000	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Aspiration hazard	-	Based on test data

Symptoms / routes of exposure

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation:	Inhalation of vapours may cause irritation of nose, throat and airway.

## 12.1. Toxicity

Hazardous ingredients:

HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS

-	72H IC50	1-3	mg/l
-	48H EC50	1.4	mg/l
-	96H LC50	2-5	mg/l

## 12.2. Persistence and degradability

Persistence and degradability: Expected to be inherently biodegradable.

## 12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

## 12.4. Mobility in soil

Mobility: Readily absorbed into soil.

## 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal company.
Disposal of packaging:	Arrange for collection by specialised disposal company.
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

## SECTION 14: TRANSPORT INFORMATION

Transport class: This product does not require a classification for transport.

## SECTION 15: REGULATORY INFORMATION

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

### 15.2. Chemical Safety Assessment

## SECTION 16: OTHER INFORMATION

Other information:

Phrases used in s.2 and s.3:

Legend to abbreviations:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

H304: May be fatal if swallowed and enters airways.

PNEC = predicted no effect concentration

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

IVN = intravenous

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular /corneal

OPT = optical

INH = inhalation

PCP = physico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.