

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name: Micro HEC - 10

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

Product application: Well Cementing in Oilfield.

Details of the supplier of the safety data sheet

Address/Phone No.: Elkem Oilfield Chemicals FZCO

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PO Box 262213, Dubai, U.A.E

Telephone: +971 4 887 6069 Telefax: +971 4 887 2155

e-mail: sds.esm@elkem.no

Emergency Phone No.: +1-800-424-9300

2. Hazards identification

Classification of the substance or mixture

Product classification				
Hazard class and	The product does not meet the criteria for hazard classification according to			
category:	Regulation (EC) No 1272/2008 (CLP) and the UN Globally Harmonized System of			
	Classification and Labelling of Chemicals (GHS), 6 th revision.			

Other hazards: The product can form flammable (explosive) dust clouds in air.

3. Composition/information on ingredients

Mixture .

HINCHIC						
Name	CAS No.	EINECS No.	Weight %	Classification: 1272/2008/EC, Annex VI,		
				Table 3.1		
Ethandial %,	107-22-2	203-474-9	< 0.1 %	Skin Irrit. 2, H315.		
glyoxal% (CEFIC,				Eye Irrit. 2, H319.		
photometrical test				Skin Sens. 1, H317.		
with MBTH)				Acute Tox. 4, H332.		
				Muta. 2, H341.		

For full text of Hazard-statements: see section 16.

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4. First aid measures

After contact with eyes: Rinse thoroughly with plenty of water, also under the eyelids.

If eye irritation persists, consult a specialist.

After ingestion: Rinse mouth. If symptoms persist, call a physician.

5. Firefighting measures

Suitable extinguishing media: Sand, Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂),

water-spray.

Specific hazards arising from the

chemical:

Carbon monoxide and carbon dioxide

Special protective equipment for

fire-fighters:

In case of fire, wear suitable respiratory equipment with positive air

supply.

6. Accidental release measures

Personal precautions: Avoid dust formation. Do not breathe dust. Forms slippery surfaces with

water.

Environmental precautions: Do not discharge large amounts into the drains or bodies of water.

Methods for cleaning up/taking up: Pick up mechanically, avoiding dust, and provide disposal in suitable

recipients.

Information for disposal look up chapter 13.

7. Handling and storage

Handling

Advice on safe handling: Provide appropriate exhaust ventilation at machinery and at places

where dust can be generated. Avoid the formation of dust.

Any dust build-up that cannot be avoided should be removed regularly.

Advice on protection against fire

and explosion:

The product can form flammable (explosive) dust clouds in air.

Keep away from sources of ignition – No smoking.

Storage

Further information on storage

conditions: No special storage conditions required.

8. Exposure controls/personal protection

Exposure limit values

Additional advice on limit values: Obey TLV for common dust, if applicable.

Storage

Occupational exposure controls: Provide appropriate exhaust ventilation at machinery and at places

where dust can be generated.









Protective and hygiene measures: Wash hands before breaks and at the end of workday.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Short term: filter apparatus, Filter P1

Hand Protection: If used properly, protective gloves are normally not required. Otherwise,

wear protective gloves which are impermeable and resistant to the

product, substance or preparation.

Eye Protection: If used properly, no need to wear eye protection. Otherwise, wear

protective goggles with integrated side shields.

9. Physical and chemical properties

General information

Physical State: Powder

Odor: Characteristic

Color: Whitish

Important health, safety and environmental information

pH-Value (at 20 °C): 6-8

Changes in the physical state

Melting Point: n.a. Boiling Point: n.a. Flash Point: n.a.

Explosive properties

The product is considered non-explosive; nevertheless explosive dust/air mixture can be generated

Dust Explosive: St 1; KSt > 0 bis 200 bar/m/sec

Lower explosion limits: 30 g/m3

Upper explosion limits:

Density: 1.1-1.5 g/cm³

Water solubility (at 20 °C): > 10 g/L

Partition coefficient: log POW < 1%

Other information

Auto-ignition temperature > 120 °C

solid:

Ignition temperature: > 460 °C

Bulk density: 200 - 600 g/l

Burning class: 5

Smoulder temperature: 280 °C

Pmax: 10 bar

Minimum ignition energy: > 10 mJ

10. Stability and reactivity

Conditions to avoids: No decomposition if stored and applied as directed.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition products: Not known.

11. Toxicological information

Acute toxicity: LD50/oral/rat: > 2000 mg/kg

Irritation corrosivity: Non-irritant
Sensitizing effects: Non-sensitising

Further information: Classification in compliance with the assessment procedure specified in the EC

guidelines 1999/45/EG

Based on experience gathered in various companies no detrimental effects to

the health are known under the usual workplace hygiene-related

circumstances.

12. Ecological information

Ecotoxicity: EC50 bacteria > 1000 mg/l (OECD 209)

LC50/96h Fish > 500 mg/l (Danio) (OECD 203)

COD < 1500 mg/g

Persistence and degradability: Product is biodegradable.

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of

activated sludge is not likely.

Further information: Do not release undiluted or in higher quantities into the groundwater,

sewerage or waters. Low hazard to waters.

13. Disposal considerations

Advice on disposal: Where possible recycling is preferred to disposal.

Can be incinerated together with household refuse in accordance with the regulations and on consultation with the disposal agency and the relevant

authorities.

It is not possible to give this product a waste code number according to the European waste catalogue because only the intended use of the user consent the assignment of a specific code number. The waste code number must be agreed with the disposer/ manufacturer/ competent authority. May be taken

to household waste disposal or incineration plant, but care for official

regulations.

Waste disposal number of

waste

160306 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off -specification batches and unused products; organic wastes other than those mentioned in

16 03 05

from residues / unused

products:

Contaminated packaging: Water

Contaminated packaging should be emptied as far as possible and after

appropriate cleansing may be taken for reuse.

14. Transport Information

Not classified as Dangerous according to TDG (Transportation of Dangerous Goods) and DOT (Department of <u>Transportation</u>)

Land Transportation (ADR/RID):Not regulatedAir Transportation (ICAO/IATA):Not regulatedSea Transportation (IMO/IMDG):Not regulated

UN No.: Not applicable
UN Proper Shipping Name: Not applicable
Transport hazard class: Not applicable
Environmental hazard: Not applicable
Special precautions for user: Not applicable

15. Regulatory information

Labeling

Additional advice on labeling: Does not require a hazard warning label, but the normal safety

precautions for handling chemicals must be observed.

National regulatory information

Water contaminating class (D): 1 – slightly water contaminating

Additional information The substance resp. all components are in:

TSCA: listed **EINECS/ELINCS**: listed DSL: listed AICS: listed **ENCS/MITI:** listed PICCS (PH): listed KECI (KR): listed HSNO: listed **IECS**: listed

16. Other Information

Relevant H-statements:

H315 - Causes skin irritation.

H319: Causes serious eye irritation.

H317 – May cause an allergic skin reaction.

H332 – Harmful if inhaled.

H341 – Suspected of causing genetic defects.

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)