

1. Identification of the Substance/Preparation and Company

Product name:	ESM D2 TM
Product application:	Surfactant and dispersing agent for well-drilling
Address/Phone No.:	Elkem ASA, Silicon Materials P.O. Box 334 Skøyen, N-0213 Oslo, Norway Telephone: + 47 22 45 01 00 Telefax: + 47 22 45 01 11 http://www.materials.elkem.com
Contact person:	sds.esm@elkem.no
REACH registration number:	Not applicable. Polymers are exempted from REACH registration.
Emergency Phone No.:	Not applicable. The product is non-hazardous.

2. Hazards Identification

Classification of the substance	The product does not meet the criteria for hazard classification in accordance with Regulation (EC) No1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 7 th revision).
Hazard pictogram:	N/A (not applicable)
Signal word:	N/A (not applicable)
Hazard statements:	N/A (not applicable)
Precautionary statements:	N/A (not applicable)

The product is unlikely to cause harmful effects when handled and stored as advised. See section 7.

3. Composition/Information on Ingredients

Synonyms/Trade names:	Acrylic co-polymer in solution
IUPAC Name:	N/A (not applicable) for polymers
CAS No.:	N/A (not applicable) for polymers
EINECS No.:	N/A (not applicable) for polymers
Constituents (analysis):	Acrylic co-polymer: 45 % (w/w) Proprietary solvents: balance

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4. First Aid Measures

Inhalation: If vapour inhaled: remove to fresh air.
Skin contact: Wash skin with water and/or a mild detergent.
Eye contact: Rinse eyes with water/saline solution. See a physician on persistent feeling of discomfort.
Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Give 2-3 glass of water to drink.

5. Fire Fighting Measures

Fire extinguishing media: water, CO₂, dry chemical powder.
Special fire fighting procedures: use water to cool closed containers. Closed containers may explode due to the build up of steam pressure when exposed to extreme heat.

6. Accidental Release Measures

Small spillage and leak: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large spillage and leak: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and Storage

Handling: Use adequate ventilation when using the product. Use good hygiene practices and wash after using the product.
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Store at temperatures between 1 and 40 °C.

8. Exposure Controls/Personal Protection

Engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the workstation location.

Personal protection

Eyes	Safety glasses
Body	Lab coat
Respiratory	No personal respiratory protective equipment normally required.
Hands	Gloves.
Feet	Not applicable.

Protective clothing (pictograms)



Personal protection in case of a large spill Splash goggles. Full suit. Vapour respirator. Be sure to use an approved/certified respirator or equivalent. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

9. Physical and Chemical Properties

Form : Liquid.
pH : 4-4.5
Colour : Amber.
Odour : Slight.
Solubility (Water) : Easily soluble in hot water, methanol, acetone, partially soluble in cold water.
Melting Point (°C) : 0
Boiling Point (°C) : >100
Viscosity (25 °C) : 700-2000 cps
Vapour pressure (20 °C) : 22.7 hPa
Explosive properties : Not explosive.
Oxidising properties : The product is not classified as oxidising in accordance with GHS and CLP.

10. Stability and Reactivity

Stability: Stable under normal conditions.
Incompatibility (materials to avoid): Reacting with oxidizing agents.
Hazardous Decomposition by-products: CO, CO₂ on combustion
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Excess heat may cause containers to rupture. Avoid temperatures below freezing point.

11. Toxicological Information

The product does not meet the criteria for hazard classification according to Regulation (EC) No1272/2008 (CLP), and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 7th revision).

Acute effects:

Inhalation: Spray mists may cause mild respiratory irritation.
Skin contact: Liquid splashed onto the skin may cause transient skin irritation.
Eye contact: Liquid splashed into the eye may cause transient eye irritation.
Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic effects: No chronic effects known.

Toxicity to Animals: LD50 (oral, rat): > 2000 mg/kg

12. Ecological Information

The product does not meet the classification criteria for ecotoxicological endpoints in accordance with Regulation (EC) 1272/2008 (CLP), and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 7th revision).

13. Disposal Considerations

The material should be recovered for recycling if possible.

The product is not regulated as hazardous waste according to Directive 2001/118/EEC, nor is it listed on EU's list of wastes (2000/532/EC). This material is not classed as "Special Waste" under the Control of Pollution (Special Waste) Regulations 1996. Prior to disposal of large quantities of this material advice should be sought from the local Environment Agency Office.

14. Transport Information

UN no.	None.
ADR:	Not regulated.
RID:	Not regulated.
DOT:	Not regulated.
TGD:	Not regulated.
IMDG-class:	Not regulated.
IATA-DGR class:	Not regulated.

15. Regulatory Information

The text of this Safety Data Sheet is prepared in compliance with:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and subsequent amendments.
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- UN Globally Harmonized System of Classification and Labelling of Chemicals (7th revision).

HCS Classification: Not controlled under HCS (United States)
CERCLA: acrylic acid: > 2000 kg; methyl methacrylate: > 450 kg

Product listing in international chemical inventories:

Swiss Inventory	The products contains substances listed in the Swiss inventory
US TSCA	All intentionally present components are listed on the TSCA inventory.
Canada DSL	All intentionally present components are listed on the DSL.
Australia AICS	On the inventory, or in compliance with the inventory
New Zealand NZIoC	On the inventory, or in compliance with the inventory
Japan ENCS	Negative listing, Not in compliance with the inventory.
Japan ISHL (METI)	Negative listing, Not in compliance with the inventory.
Korea KECI	Negative listing, Not in compliance with the inventory.
Philippines PICCS	Negative listing, Not in compliance with the inventory.
China IECSC	Negative listing, Not in compliance with the inventory.

16. Other Information

According to Chapter 1.5.2 of the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Article 58 (2)(a), and Article 59(2)(b) of (EC) No 1272/2008 (CLP), which amends REACH article 31(1), safety data sheets (SDS) are only required for substances and mixtures that meet the harmonised criteria for physical, health or environmental hazards. Since this product does not meet these criteria, a SDS according to (EU) 2015/830 is not issued. In order to communicate relevant HSE-(health, safety and environmental-) information, this product safety information (PSI) is provided instead.

In accordance with REACH article 31(5), safety data sheets shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market. This obligation, however, only applies for hazard-classified products which require a formal SDS. Since this product is not hazard-classified, the product safety information (PSI) is, in accordance with current regulation, provided in English language only.

REACH article 31(7) requires relevant exposure scenarios from the Chemical Safety Report (CSR) to be annexed to the SDS. However, according to REACH Annex I, section 0. (Introduction), subsection 0.6. no 4 and 5, exposure scenarios are only required for hazard-classified substances or mixtures. Since this product is not hazard-classified according to CLP, there is no requirement for exposure scenarios.

Changes from revision 00 to 01: generic e-mail address inserted, removed reference to DPD directive, removed legal disclaimer, inserted reference to (EU) 2015/830.

Changes from revision 01 to 02: Corporate name updated (ASA), reference to GHS 7th rev.