SDS no. J480 Version 4

Revision date 05-Jan-2016 Supersedes date 04-Sep-2014



# Safety Data Sheet YF100HTD Crosslinker Delay Agent J480

## 1. Identification of the substance/preparation and of the Company/undertaking

#### 1.1 Product identifier

Product name YF100HTD Crosslinker Delay Agent J480

Product code J480 Denmark Pr. no.: 1114414

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

Recommended Use Used as a fracturing additive in oilfield applications

Uses advised against Consumer use

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

#### Supplier

Schlumberger Oilfield Australia Pty Ltd

ABN: 74 002 459 225 ACN: 002 459 225

256 St. Georges Terrace, Perth WA 6000

+47 5157 7424

SDS@slb.com

## 1.4 Emergency Telephone Number

Emergency telephone - (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 595 3518, Canada 001 613 996 6666

## 2. Hazards identification

## 2.1 Classification of the substance or mixture

## Classification according to (EC) No. 1272/2008

Health hazards Not classified

Environmental hazards Not classified

Physical Hazards Not classified

### 2.2 Label elements

## Signal word

None

### **Hazard statements**

This product is not classified as hazardous therefore no (H) hazard statements assigned.



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#### Precautionary Statements - EU (§28, 1272/2008)

This product is not classified as hazardous therefore has no (P) precautionary statements assigned.

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**Contains** 

#### 2.3 Other data

Not classified as PBT/vPvB by current EU criteria

## Australian statement of hazardous/dangerous nature

Classified as Non-Hazardous according to the criteria of NOHSC. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

## 3. Composition/information on ingredients

#### 3.1 Substances

This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.

#### 3.2 Mixtures

Not Applicable

## 4. First aid measures

## 4.1 First-Aid Measures

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation

develops or if breathing becomes difficult.

**Ingestion** Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth

to an unconscious person. Get medical attention if symptoms occur.

**Skin contact** Wash skin thoroughly with soap and water. Get medical attention if irritation persists.

Eye contact Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses. Get

medical attention if any discomfort continues.

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

General advice The severity of the symptoms described will vary dependant of the concentration and the

length of exposure. If adverse symptoms develop, the casualty should be transferred to

hospital as soon as possible.

Main symptoms

**Inhalation** Please see Section 11. Toxicological Information for further information.

**Ingestion** Please see Section 11. Toxicological Information for further information.



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**Skin contact** Please see Section 11. Toxicological Information for further information.

Eye contact Please see Section 11. Toxicological Information for further information.

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

Notes to physician Treat symptomatically.

## 5. Fire-fighting measures

#### 5.1 Extinguishing media

### Suitable extinguishing media

Use extinguishing media appropriate for surrounding material.

#### Extinguishing media which shall not be used for safety reasons

None known.

## 5.2 Special hazards arising from the substance or mixture

#### Unusual fire and explosion hazards

Dust may form explosive mixture in air.

#### **Hazardous combustion products**

Fire or high temperatures create:, Carbon oxides (COx), Harmful organic chemical fumes.

### 5.3 Advice for firefighters

#### Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

## **Special Fire-Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water.

### 6. Accidental release measures

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

Use personal protective equipment. See also section 8.

### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

#### **Environmental exposure controls**

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

## 6.3 Methods and materials for containment and cleaning up

#### **Methods for containment**

Cover powder spill with plastic sheet or tarp to minimize spreading. Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

#### 6.4 Reference to other sections

See section 13 for more information.

## 7. Handling and storage

#### 7.1 Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid dust formation.

#### **Hygiene measures**

Use good work and personal hygiene practices to avoid exposure. When using do not smoke, eat or drink. Wash hands and face before breaks and immediately after handling the product Remove contaminated clothing.

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

**Technical measures/precautions** Ensure adequate ventilation.

Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid heat, flames

and other sources of ignition. Keep away from direct sunlight. Incompatible with oxidizing

agents.

Storage class Chemical storage.

Packaging material Use specially constructed containers only.

7.3 Specific end uses

See Section 1.2.

## 8. Exposure controls/personal protection

#### 8.1 Control parameters

Exposure limits NUI = Nuisance dust, TWA 4mg/m³ Respirable Dust, 10mg/m³ Total Dust.

No biological limit allocated

#### 8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

#### Engineering measures to reduce exposure

Ensure adequate ventilation. Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

**Eye protection** Safety glasses with side-shields.

Hand protection Repeated or prolonged contact:, Use protective gloves made of:, Neoprene, PVC, Rubber,

Frequent change is advisable.

ventilation wear suitable respiratory equipment, Suitable mask with particle filter P1 (European Norm 143), At work in confined or poorly ventilated spaces, respiratory

protection with air supply must be used.

Skin and body protection Wear suitable protective clothing, Eye wash and emergency shower must be available at

the work place.



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#### Hygiene measures

Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.







## 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Solid **Appearance** Powder Odor None White - Yellow Color **Odor threshold** Not applicable

<u>Values</u> **Property** Remarks

6.5 - 7.5 pH @ dilution @ 10% sol.

206 °C / 403 °F Melting/freezing point Boiling point/range Not Applicable Flash point Not Applicable

Evaporation rate (BuAc =1) No information available Not Applicable

Flammability (solid, gas)

Flammability Limits in Air

Upper flammability limit Not applicable Lower flammability limit Not applicable Vapor pressure Not applicable Vapor density Not applicable

Specific gravity 1.2 @ 20 °C

**Bulk density** 600 - 1.000kg/m<sup>3</sup> No information available Relative density 590 g/L @ 25 °C Water solubility Solubility in other solvents No information available **Autoignition temperature** >200 °C / >392 °F 170-220°C / 338-428°F **Decomposition temperature** Kinematic viscosity Not Applicable

No information available Dynamic viscosity

Log Pow No information available

**Explosive properties** None known **Oxidizing properties** None known.

9.2 Other information

No information available Pour point Molecular weight No information available

VOC content(%) negligible

No information available **Density** 

## 10. Stability and reactivity

## 10.1 Reactivity

No specific reactivity hazards associated with this product.

## 10.2 Chemical stability



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Stable under normal temperature conditions and recommended use.

#### 10.3 Possibility of Hazardous Reactions

#### Hazardous polymerization

Hazardous polymerization does not occur.

#### 10.4 Conditions to avoid

Avoid dust formation. Avoid heat, flames and other sources of ignition. Keep away from direct sunlight.

#### 10.5 Incompatible materials

Oxidizing agents.

#### 10.6 Hazardous decomposition products

See also section 5.2.

## 11. Toxicological information

## 11.1 Information on toxicological effects

**Acute toxicity** 

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Dust may cause mechanical irritation. Eye contact

Skin contact Prolonged contact may cause redness and irritation.

Ingestion Ingestion may cause stomach discomfort.

Unknown acute toxicity Not Applicable.

Sensitization This product does not contain any components suspected to be sensitizing.

**Mutagenic effects** This product does not contain any known or suspected mutagens.

Carcinogenicity This product does not contain any known or suspected carcinogens.

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

Routes of exposure Skin contact. Eye contact. Inhalation.

Routes of entry No route of entry noted.

Specific target organ toxicity

(single exposure)

Specific target organ toxicity

(repeated exposure)

Not classified

Not classified.



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Not Applicable.

## 12. Ecological information

## 12.1 Toxicity

The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Toxicity to algae

This product is not considered toxic to algae.

#### Toxicity to fish

This product is not considered toxic to fish.

## Toxicity to daphnia and other aquatic invertebrates

This product is not considered toxic to invertebrates.

## 12.2 Persistence and degradability

Product is biodegradable.

#### 12.3 Bioaccumulative potential

Does not bioaccumulate.

## 12.4 Mobility in soil

## **Mobility**

Soluble.

#### 12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

#### 12.6 Other adverse effects.

None known.

## 13. Disposal considerations

Schlumberger

#### YF100HTD Crosslinker Delay Agent J480

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13.1 Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging

**EWC** Waste disposal No. According to the European Waste Catalogue, Waste Codes are not product specific, but

> application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: EWC waste disposal No: Waste Code: 16 03 06 - organic wastes other than those mentioned in

16 03 05

## 14. Transport information

#### 14.1 UN Number

Not regulated

#### 14.2 Proper shipping name

The product is not covered by international regulation on the transport of dangerous goods

14.3 Hazard class(es)

ADR/RID/ADN/ADG Hazard class Not regulated **IMDG Hazard class** Not regulated ICAO Hazard class/division Not regulated

14.4 Packing group

ADR/RID/ADN/ADG Packing group Not regulated **IMDG Packing group** Not regulated **ICAO Packing group** Not regulated

#### 14.5 Environmental hazard

No

## 14.6 Special precautions

Not Applicable

#### 14.7 Transport in bulk according to Annex I/II of MARPOL 73/78 and the IBC Code

Please contact SDS@slb.com for info regarding transport in Bulk.

## 15. Regulatory information

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

Germany, Water Endangering

Water endangering class = 1

Classes (VwVwS)

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). 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), establishing a European Chemicals Agency, amending Directive 1999/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC)



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No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)].

National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004) 3rd Edition].

National Occupational Health and Safety Commission's Exposure Standards for Atmospheric Contaminants in the occupational Environment [NOHSC:1003 (1995)].

Safe Work Australia.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

#### International inventories

USA (TSCA)	Complies
European Union (EINECS and ELINCS)	Complies
Canada (DSL)	Complies
Philippines (PICCS)	Complies
Japan (ENCS)	Complies
China (IECSC)	Complies
Australia (AICS)	Complies
Korean (KECL)	Complies
New Zealand (NZIoC)	Complies

#### 15.2 Chemical Safety Report

No information available

#### 16. Other information

Prepared by Global Regulatory Compliance - Chemicals (GRC - Chemicals), Muriel Martin Beurel

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Version 4

The following sections have been

All sections, No changes with regard to classification have been made.

#### Full text of H-Statements referred to under sections 2 and 3

This product is not classified as hazardous therefore no (H) hazard statements assigned.

#### **Disclaimer**

revised:

The information contained herein is considered in good faith as reliable of the date issued and is based upon on

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