

TUNNEL-GEL MAX

Kemikalieinstruktion



Arbejdssted: Østergaard

Produkttype: Diverse **Bemærkninger:**

Mærkning

Væsentligste sundhedsfarer

Støv kan irritere øjne og hud.

Produktet indeholder kvarts og/eller cristobalit og/eller tridymit, som alle er optaget på Arbejdstilsynets liste over kræftfremkaldende stoffer. Mængden af disse stoffer er ikke angivet. Undgå at indånde støv.

Anvendelsesbegrænsning

Ingen.

Uddannelseskrav

Ingen, men brugeren skal være instrueret i arbejdets udførelse og kende indholdet af denne brugsanvisning.

Påføringsmetode

Værnemidler



Brug halvmaske med P2 filter ved støvdannelse.



Brug handsker.



Brug tætsluttende beskyttelsesbriller ved risiko for støv i øjnene.



Ikke nødvendigt.

Opbevaring: [Lokal information mangler]

Kontaktperson: [Lokal information mangler]

Forholdsregler ved brug

Undgå indånding af støv. Sørg for god ventilation Undgå kontakt med hud og øjne. Vask hænder før pauser, måltider, toiletbesøg, og efter endt arbejde. Brug mild sæbe og vand efterfulgt af fed creme.

Førstehjælp



Indånding: Søg frisk luft. Skyl munden med vand og puds næsen grundigt. Søg læge ved vedvarende ubehag.

Øjne: Skyl straks med vand i ca. 15 minutter. Spil øjet godt op. Evt. kontaktlinser fjernes. Søg læge ved fortsat irritation.

Hud: Fjern forurenede tøj og vask huden med vand og sæbe. Huden smøres med en fed creme. Ved vedvarende hudirritation, eksem el. lign. søg læge.

Indtagelse: Skyl munden grundigt med vand. Giv vand eller mælk at drikke. Fremkald ikke opkastning. Søg læge ved ubehag.

Forbrænding: Ikke relevant.

Opbevaring af førstehjælpsudstyr: [Lokal information mangler]

Nødtlf. nr: [Lokal information mangler]

Spild/Uheld/Miljø



Brug de samme værnemidler som nævnt under personlige værnemidler. Spild opsamles således, at det støver mindst muligt. Bortskaffelse, se under affald.

Opbevaring af hjælpemidler: [Lokal information mangler]

Miljø: Produktet må ikke udledes til kloak, jord- eller vandmiljøet.

Brand



Sluk med pulver, skum, kulsyre eller vand.

Opbevaring af slukningsmidler: [Lokal information mangler]

Opbevaring af produktet

Opbevares i tæt lukket original emballage.

Opbevaringssted: [Lokal information mangler]

Affald

Spild og rester afleveres til den kommunale modtagestation. Kemikalieaffaldsgruppe: H, EAK-kode: 01 03 06.

Opbevaring (affald): [Lokal information mangler]

Affaldsmotager: [Lokal information mangler]

Supplerende oplysninger

Produktet indeholder stoffer optaget på den danske liste over kræftfremkaldende stoffer i ukendte mængder. Undgå derfor at indånde støv.

Indholdsstoffer

Kvarts og/eller cristobalit og/eller tridymit

Leverandør

Halliburton Energy Services, Tlf: 0044 1224 777000

Sikkerhedsdatablad fra: 28-11-2018

PR-nr.: -

Fysiske/kemiske egenskaber

Udseende: Pulver

Lugt: Mild jordagtig

Vægtfylde: 2,6 kg/l

Opløselighed i vand: Svagt opløseligt

pH: 8-10

Stabilitet

Produktet er stabilt ved anvendelse efter leverandørens anvisninger. Hold produktet væk fra Flussyre.

Intern transport

[Lokal information mangler]

Bemærkninger

Anvendelse: Viskositetsmiddel til minedrift/offshore.

www.DanskKemidatabase.dk © 2023 JobLife A/S

Oprettet: 29-07-2020 Rettet: 29-07-2020

Udarbejdelse

Udarbejdet af kmb d. 27-11-2020

Revideret af kmb d. 27-11-2020

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according to Regulation (EC) No. 2015/830

Revision Date: 28-Nov-2018
Preparation Date 28-Nov-2018

Revision Number: 4
Internal ID Code HM008082

| |
|--|
| SECTION 1: Identification of the substance/mixture and of the company/undertaking |
|--|

1.1. Product Identifier

| | |
|------------------|-----------------|
| Product Name | TUNNEL-GEL® MAX |
| Internal ID Code | HM008082 |

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

| | |
|-----------------------|--|
| Recommended Use | Viscosifier |
| Sector of uses | SU2 - Mining, (including offshore industries) |
| Product category(ies) | PC20 - Products such as pH-regulators, flocculants, precipitants, neutralization agents, other unspecified |
| Process categories | PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises |

1.3. Details of the supplier of the safety data sheet

Halliburton Energy Services
Halliburton House, Howemoss Place
Kirkhill Industrial Estate
Dyce
Aberdeen, AB21 0GN
United Kingdom
+44 1224 776888

www.halliburton.com

For further information, please contact

E-mail Address: fdunexchem@halliburton.com

1.4. Emergency telephone number

+44 8 08 189 0979 / 1-760-476-3961

Global Incident Response Access Code: 334305

Contract Number: 14012

| Emergency telephone - Article 45 - (EC)1272/2008 | |
|--|---|
| Turkey | Ulusal Zehir Danisma Merkezi (UZEM) :114 Acil Saglik Hizmetleri : 112 |
| Europe | 112 |
| Bulgaria | Bulgarian poison centre: +359 2 915-44-09 or +359 2 915-43-46 |
| Croatia | Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health) |
| Cyprus | 00357 22 88 7171 |
| Denmark | Poison Control Hotline (DK): +45 82 12 12 12 |
| France | ORFILA (FR): + 01 45 42 59 59 |
| Germany | Poison Center Berlin (DE): +49 030 30686 790 |
| Italy | Poison Center, Milan (IT): +39 02 6610 1029 |
| Netherlands | National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals) |
| Norway | Poisons Information (NO):+ 47 22 591300 |
| Poland | Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97 |
| Portugal | CIAV - Centro de Informação Antivenenos (Portuguese Poison Centre): + 351 213 303 271 |
| Romania | +40 21 318 36 06 |
| Spain | Poison Information Service (ES): +34 91 562 04 20 |
| United Kingdom | NHS Direct (UK): +44 0845 46 47 |

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No 1272/2008

Not classified

2.2. Label Elements

Not classified

Hazard Pictograms

Signal Word: None

Hazard Statements:
Not Classified

Precautionary Statements:
None

Contains
Substances

Contains no hazardous substances in concentrations above cut-off values according to the competent authority

CAS Number
NA

2.3. Other Hazards

None known

SECTION 3: Composition/information on ingredients

3.1. Substances Substance

| Substances | EINECS | CAS Number | PERCENT (w/w) | EU - CLP Substance Classification | REACH Reg. No |
|--|--------|------------|---------------|-----------------------------------|-------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | NA | 60 - 100% | Not classified | No data available |

For the full text of the H-phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Eyes In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Skin Wash with soap and water. Get medical attention if irritation persists.
Ingestion Under normal conditions, first aid procedures are not required.

4.2. Most important symptoms and effects, both acute and delayed
No significant hazards expected.

4.3. Indication of any immediate medical attention and special treatment needed
Notes to Physician Treat symptomatically

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

All standard fire fighting media

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards in a fire

Not applicable

5.3. Advice for firefighters

Special protective equipment for firefighters

Not applicable

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 8 for additional information

6.2. Environmental precautions

None known.

6.3. Methods and material for containment and cleaning up

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

6.4. Reference to other sections

See Section 8 and 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Keep from excessive heat. Do not reuse empty container. Product has a shelf life of 36 months.

7.3. Specific end use(s)

Exposure scenario No information available

Other Guidelines No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Substances | CAS Number | EU | UK | Netherlands | France |
|--|------------|----------------|----------------|----------------|----------------|
| Contains no hazardous substances in concentrations above cut-off values according to | NA | Not applicable | Not applicable | Not applicable | Not applicable |

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| | | | |
|-------------------------|--|--|--|
| the competent authority | | | |
|-------------------------|--|--|--|

| Substances | CAS Number | Germany | Spain | Portugal | Finland |
|--|------------|----------------|----------------|----------------|----------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | Not applicable | Not applicable | Not applicable | Not applicable |

| Substances | CAS Number | Austria | Ireland | Switzerland | Norway |
|--|------------|----------------|----------------|----------------|----------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | Not applicable | Not applicable | Not applicable | Not applicable |

| Substances | CAS Number | Italy | Poland | Hungary | Czech Republic |
|--|------------|----------------|----------------|----------------|----------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | Not applicable | Not applicable | Not applicable | Not applicable |

| Substances | CAS Number | Denmark | Romania | Croatia | Cyprus |
|--|------------|----------------|----------------|----------------|----------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | Not applicable | Not applicable | Not applicable | Not applicable |

Derived No Effect Level (DNEL) No information available
Worker

General Population

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

Personal protective equipment If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection Not normally needed. But if significant exposures are possible then the following respirator is recommended:
 Dust/mist respirator. (N95, P2/P3)

Hand Protection Normal work gloves.
Skin Protection Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.

Eye Protection Wear safety glasses or goggles to protect against exposure.
Other Precautions None known.

Environmental Exposure Controls No information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Physical State: Powder
Odor: Mild earthy

Color: Various
Odor Threshold: No information available

Property
Remarks/ - Method

Values

| | |
|---|--------------------------|
| pH: | 8-10 |
| Freezing Point / Range | No data available |
| Melting Point / Range | No data available |
| Pour Point / Range | No data available |
| Boiling Point / Range | No data available |
| Flash Point | No data available |
| Flammability (solid, gas) | No data available |
| Upper flammability limit | No data available |
| Lower flammability limit | No data available |
| Evaporation rate | No data available |
| Vapor Pressure | No data available |
| Vapor Density | No data available |
| Specific Gravity | 2.6 |
| Water Solubility | Slightly soluble |
| Solubility in other solvents | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Autoignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity | No data available |
| Explosive Properties | No information available |
| Oxidizing Properties | No information available |

9.2. Other information

VOC Content (%) No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Will Not Occur

10.4. Conditions to avoid

None anticipated

10.5. Incompatible materials

Hydrofluoric acid.

10.6. Hazardous decomposition products

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

| | |
|---------------------|---|
| Inhalation | None known. |
| Eye Contact | May cause mechanical irritation to eye. |
| Skin Contact | May cause mechanical skin irritation. |
| Ingestion | None known. |

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

Toxicology data for the components

| Substances | CAS Number | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------|------------|-----------|-------------|-----------------|
| | | | | |

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| | | | | |
|--|----|-------------------|-------------------|-------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | No data available | No data available | No data available |
|--|----|-------------------|-------------------|-------------------|

SECTION 12: Ecological information

12.1. Toxicity

| Substances | CAS Number | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Toxicity to Invertebrates |
|--|------------|--------------------------|--------------------------|----------------------------|---------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | No information available | No information available | No information available | No information available |

12.2. Persistence and degradability

| Substances | CAS Number | Persistence and Degradability |
|--|------------|-------------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | No information available |

12.3. Bioaccumulative potential

| Substances | CAS Number | Bioaccumulation |
|--|------------|--------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | No information available |

12.4. Mobility in soil

| Substances | CAS Number | Mobility |
|--|------------|--------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA | No information available |

12.5. Results of PBT and vPvB assessment

| Substances | PBT and vPvB assessment |
|--|-------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | Not applicable |

12.6. Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Disposal methods

If practical, recover and reclaim, recycle, or reuse by the guidelines of an approved local reuse program. Should contaminated product become a waste, dispose of in a licensed industrial landfill according to federal, state, and local regulations.

Contaminated Packaging

Follow all applicable national or local regulations.

SECTION 14: Transport information

IMDG/IMO

| | |
|-----------------------------|----------------|
| UN Number | Not restricted |
| UN proper shipping name: | Not restricted |
| Transport Hazard Class(es): | Not applicable |
| Packing Group: | Not applicable |
| Environmental Hazards: | Not applicable |

ADN

| | |
|--------------------------|----------------|
| UN Number | Not restricted |
| UN proper shipping name: | Not restricted |
| Packing Group | Not applicable |
| Environmental Hazards: | Not applicable |

ADR/RID

| | |
|--------------------------|----------------|
| UN Number | Not restricted |
| UN proper shipping name: | Not restricted |
| Packing Group | Not applicable |
| Environmental Hazards: | Not applicable |

IATA/ICAO

| | |
|-----------------------------|----------------|
| UN Number | Not restricted |
| UN proper shipping name: | Not restricted |
| Transport Hazard Class(es): | Not applicable |
| Packing Group: | Not applicable |
| Environmental Hazards: | Not applicable |

14.1. UN Number Not restricted

14.2. UN proper shipping name: Not restricted

14.3.

14.4. Packing Group Not applicable

14.5. Environmental Hazards: Not applicable

14.6. Special Precautions for User None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

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

International Inventories

| | |
|---|---|
| US TSCA Inventory | All components listed on inventory or are exempt. |
| Canadian Domestic Substances List (DSL) | All components listed on inventory or are exempt. |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering WGK 0: Generally not water endangering.
Classes (WGK)

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.
Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2. Chemical safety assessment

No information available

| |
|--------------------------------------|
| SECTION 16: Other information |
|--------------------------------------|

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

None

Key or legend to abbreviations and acronyms used in the safety data sheet

bw – body weight

CAS – Chemical Abstracts Service

CLP – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification, Labelling and Packaging of substances and mixtures

EC – European Commission

EC10 – Effective Concentration 10%

EC50 – Effective Concentration 50%

EEC – European Economic Community

ErC50 – Effective Concentration growth rate 50%

IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 – Lethal Concentration 50%

LD50 – Lethal Dose 50%

LL0 – Lethal Loading 0%

LL50 – Lethal Loading 50%

MARPOL – International Convention for the Prevention of Pollution from Ships

mg/kg – milligram/kilogram

mg/L – milligram/liter

NIOSH – National Institute for Occupational Safety and Health

NOEC – No Observed Effect Concentration

NTP – National Toxicology Program

OEL – Occupational Exposure Limit

PBT – Persistent Bioaccumulative and Toxic

PC – Chemical Product category

PEL – Permissible Exposure Limit

ppm – parts per million

PROC – Process category

REACH – REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL – Short Term Exposure Limit

SU – Sector of Use category

Key literature references and sources for data

www.ChemADVISOR.com/

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Revision Note

SDS sections updated:

SECTION:

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This safety data sheet complies with the requirements of Regulation (EC) No. 2015/830

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End of Safety Data Sheet