



INVENTED TO LAST

كيماويات السعودية

Saudi Chem

SC 174

Drilling Weighted Pipe Free Additive

MATERIAL SAFETY DATA SHEET

SECTION 1:

Identification of the Substance/
Mixture and the Company/
Undertaking

1.1 Product identifier:

Name: SC 174
Description: Drilling Weighted Pipe Free Additive

1.2 Relevant identified uses of the substance/mixture:

Uses: Oil and gas industry oil mud liquid thinner
Not to be used for: Any other purposes

1.3 Details of the supplier of the safety data sheet:

Company identification: Saudi Chem
Address: P.O. Box 70108
Al Khobar 31952
Kingdom of Saudi Arabia
Telephone: +966 13 812 1166 | +966 13 847 6467
Fax: +966 13 847 6985
Email: solutions@saudichem.com

SECTION 2:

Hazards Identification

2.1 Classification of the substance/mixture:

Classification according to (EC) Regulation 1272/2008

Acute toxicity (Category 4) **H332**
Aspiration hazard (Category 1) **H304**
Specific target organ toxicity (STOT) - repeated exposure (Category 2) **H373**
Hazardous to the aquatic environment (Chronic Category 2) **H411**
(See section 16 for full text of H-Statements)

Classification according to Directive 1999/45/EC

Xn; R20
Xn; R65
Xn; R66
N; R51/53
(See section 16 for the full text of R-Phrases)

2.2 Label elements:



Signal word: Danger

Hazard statement(s):

H332 Harmful if inhaled
H304 May be fatal if swallowed and enters airways
H373 May cause damage to organs through prolonged or repeated exposure
EUH066 Repeated exposure may cause skin dryness or cracking
H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s):

P261 Avoid breathing mist/vapours
P273 Avoid release to the environment.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting
P501 Dispose of contents/container in accordance with local/national regulations

2.3 Other hazards:

Possible effects to soil dwelling organisms

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SECTION 3:

Composition/Information
on Ingredients

3.2 Mixtures:

Hazardous ingredient(s):

Ingredients	% by weight	CAS/EU number	Classification Directive 1999/45/EC	Classification Regulation (EC) 1272/2008
Gas Oil	25-35	64741-43-1 265-043-1	Xn; R20 Xn; R65 N; R51/53 Xn; R66	Acute Tox. 4 H332 Asp. Tox. 1 H304 STOT RE 2 H373 Aquatic Chronic 2 H411
Methanol	<5	67-56-1	F; R11 T; R23/24/25 T; R39/23/24/25	Flam. Liq. 2, H225 Acute Tox. 3 H301 Acute Tox. 3 H311 Acute Tox. 3 H331 STOT SE 1 H370

(See section 16 for the full text of R-Phrases and H-Statements)

SECTION 4:

First-aid Measures

4.1 Description of first-aid measures:

Inhalation: Remove patient from exposure. Remove patient to fresh air, allow to rest and keep warm. Get medical attention if feeling unwell

Ingestion: Immediately rinse out mouth with water. Give sips of water. Do not induce vomiting. Provide rest and warmth. Get medical attention if feeling unwell

Skin contact: Immediately wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if skin appears damaged

Eye contact: Immediately flood the eye with plenty of water, holding the eye open. Get medical attention.

SECTION 5:

Fire-fighting Measures

5.1 Extinguishing media:

Suitable: Water mist, foam, carbon dioxide or dry powder

Not suitable: Water jet – will spread product

5.2 Special hazards arising from the substance/mixture:

Fumes containing carbon dioxide, carbon monoxide, amine vapour and oxides of nitrogen may be formed in large fires

5.3 Advice for fire-fighters:

Keep run-off water out of sewers and water sources. Self-contained breathing apparatus and full protective clothing must be worn

SECTION 6:

Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment (see section 8). Avoid contact with eyes and skin. Use with adequate ventilation

6.2 Environmental precautions:

Prevent from entering the sewers or the immediate environment. In case of large spill, inform local police, local authority, water supplier, national rivers authority and/or fire brigade if appropriate

6.3 methods and materials for containment and clean-up:

On soil: Contain any spilled material immediately onto a non-reactive absorbent material and remove to labelled containers for disposal (see section 13)

On water: None known

6.4 Reference to other sections:

See section 8 for details of protective equipment
See section 13 for details of disposal methods

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SECTION 7: Handling and Storage

7.1 Precautions for safe handling:

Keep away from heat. No smoking. Use personal protective equipment (see section 8) Ensure good ventilation during handling

7.2 Conditions for safe storage, including any incompatibilities:

Store outdoors in a secure site. Keep in original containers

SECTION 8: Exposure Controls/ Personal Protection

8.1 Control parameters:

No data available on mixture. Data provided is based on individual ingredient(s)

Occupational exposure levels for:	Value	Conclusion
Gas oil		Note: In this case the information in heading 8 is not required
		No data available

Monitoring procedures: None specified

8.2 Exposure controls:

Personal protection:

Always check applicability with your supplier of protective equipment

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Eye Protection:

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as EN166 (EU)

Skin protection:

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Hand protection:

Wear gloves when handling the product. Contact your supplier of protective equipment for more details. Note: Break-through times can vary depending upon the thickness, use and source. Change gloves regularly. The selected protective gloves have to satisfy the standard of EN 374 (EU)

General hygiene:

Do not eat, drink or smoke while handling the product. Immediately take off any contaminated clothing and lauder before re-use. Wash hands and/or face before breaks and at the end of the shift. After the session apply hand-cream to clean skin

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance: (physical state, colour etc.)	Liquid, amber/brown
Odour:	Hydrocarbon
Odour threshold:	Not determined
pH:	5-7
Melting/freezing point:	10°C
Initial boiling point and boiling range:	Not determined
Flash point:	>60°C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Not determined
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density at 20°C:	0.95 to 1.05 gm/cc

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Solubility (ies):	Dispersible in water and oil
Partition coefficient:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity at 20°C:	Not determined

9.2 Other data:

These are typical values and do not constitute a specification

10.1 Reactivity:

Stable under normal conditions and relevant use

10.2 Chemical stability:

Stable under normal conditions and relevant use

10.3 Possibility of hazardous reactions:

Stable under normal conditions and relevant use

10.4 Conditions to avoid:

Heat, flames and sparks

10.5 Incompatible materials:

Oxidizing agents, Strong acids, Strong bases, Amines

10.6 Hazardous decomposition products:

None known

11.1 Information on toxicological effects:

No data available on mixture. Data provided is based on individual ingredient(s)

Acute toxicity:

Gas oil:

Straight run middle distillate was inhaled by male and female rats for 4 hours at TWA concentrations from 1.05mg/L to 5.39mg/L. An estimated LC50 value of 1.78mg/L for the combined sexes and 1.72mg/L for males rats and 1.82mg/L for females.

Skin corrosion/irritation: Causes skin irritation. Repeated exposure may cause

Serious eye damage/irritation:

May causes mild eye irritation

Respiratory or skin sensitisation:

Not known

Germ cell mutagenicity:

Not known

Carcinogenicity:

Not known

Reproductive toxicity:

Not known

STOT – single exposure:

Not known

STOT – repeated exposure:

May cause damage to organs through prolonged or repeated exposure. Dermal application at doses 125 mg/kg, 5 d/wk, for 13 weeks resulted in decreased liver, thymus and spleen weights and altered bone marrow function. Microscopic alterations included liver hypertrophy and necrosis, decreased haematopoiesis and lymphocyte depletion

Aspiration hazard:

May be fatal if swallowed and enters airways

Symptoms relating to physical, chemical and toxicological characteristics:

While significant vapour concentrations are not likely, high concentrations can cause minor respiratory irritation, headache, drowsiness and dizziness, loss of co-ordination, disorientation and fatigue. Ingestion can cause irritation of the digestive tract, nausea, diarrhoea and vomiting.

Other information:

None known

SECTION 10:

Stability and Reactivity

SECTION 11:

Toxicological Information

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SECTION 12:

Ecological Information

12.1 Toxicity:

No data available on mixture. Data provided is based on individual ingredient(s)

Experimental studies of gas oils included in the mixture show that acute aquatic toxicity typically in the range LL50 65mg/L. over 96 hrs. These values are consistent with the predicted aquatic toxicity of these substances based on their hydrocarbon compositions. They should be regarded as toxic to aquatic organisms with the potential to cause long term adverse effects in the aquatic environment

12.2 Persistence and degradability:

None known

12.3 Bioaccumulative potential:

High potential for bioaccumulative

12.4 Mobility in soil:

Adsorption is the most predominant physical process on release to soil. Adsorbed hydrocarbons will slowly degrade in both soil and water.

12.5 Results of PBT and vPvB assessment:

No data available

12.6 Other adverse effects:

None anticipated

SECTION 13:

Disposal Considerations

13.1 Waste treatment methods:

Dispose to licensed waste disposal site in accordance with local waste disposal authority regulations

SECTION 14:

Transport Information

Authority	14.1 UN number	14.2 Proper Shipping Name	14.3 Class or division	14.4 Packing group	14.5 Environmental hazard	Other information
ADR	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (gas oil, emulsifier)	9	III	Yes	Transport Cat. 3 (Tunnel restriction code: E) EAC: ?3Z
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (gas oil, emulsifier)	9	III	Yes (Marine pollutant: No)	Stowage and segregation: Category A.
IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (gas oil, emulsifier)	9	III	Yes	Pkg. Inst. 964 ERG Code: 9L

14.6 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/mixture:

The provision of safety data sheets (SDS) comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for Chemicals Hazards Information and Packaging Regulations). This is in addition to The Health and Safety at Work Act 1974 in the United Kingdom

15.2 Chemical safety assessment:

Chemical safety assessment has not been carried out

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SECTION 16: Other Information

Sources of information used:

ECHA (European Chemicals Agency)

HSE (Health and Safety Executive)

EU-OSHA (European Agency for Safety and Health at Work)

H-Statements used in this document:

H304 May be fatal if swallowed and enters airways**H373** May cause damage to organs through prolonged or repeated exposure**EUH066** Repeated exposure may cause skin drying or cracking**H411** Toxic to aquatic life with long lasting effects**H332** Harmful if inhaled**H225** Highly flammable liquid and vapour**H301** Toxic if swallowed**H311** Toxic in contact with skin**H331** Toxic if inhaled**H370** Causes damage to organs through prolonged or repeated exposure

R-Phrases used in this document:

Xn; R20 Harmful by inhalation**R34** Causes burns**Xn; R65** Harmful: may cause lung damage if swallowed**N; R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in**Xn; R66;** Repeated exposure may cause skin dryness or cracking**R10** Flammable**R43** May cause sensitisation by skin contact**R23/24/25** Toxic by inhalation, in contact with skin and if swallowed**R39/23/24/25** Toxic: danger of very serious irreversible effects through inhalation in contact with skin and if swallowed

Reasonable care has been taken in the preparation of this document to assess and summarise the hazard properties of the product(s), the user must still satisfy them-self that the information contained herein is pertinent to permit safe handling under their own use conditions, since we cannot foresee all conditions of use.

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