

SECTION 1:

Identification of Substance/ Preparation and Company Undertaking

SECTION 2:

SECTION 3:

on Ingredients

Composition/Information

Hazards Identification

SC 640-SA

Drilling Corrosion Inhibitor

MATERIAL SAFETY DATA SHEET

1.1 Product identifier:

Name: SC 640-SA

Description: Drilling Corrosion Inhibitor

1.2 Relevant identified uses of the substance/mixture:

Uses: Oil and gas industry **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

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 is 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/vapoursP273 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 w/ local/national regulations

2.3 Other hazards:

Possible effects to soil dwelling organisms

3.2 Mixtures:

Fatty acid reaction productandgas oil

Hazardous ingredient(s):

Ingredients	% by weight	CAS/EU number	Classification Directive 1999/45/EC	Classification Regulation (EC 1272/2008	
Gas Oil	40-50 64741-43-1		Xn; R20	Acute Tox. 4 H332	
		265-043-1	Xn;R65	Asp. Tox. 1 H304	
			N;R51/53	STOT RE 2 H373	
			Xn; R66	Aquatic Chronic 2H411	
Fatty acid reaction products	30-50		Not classified	Not classified	

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

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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:

Contain any spilled material immediately onto a non-reactive absorb On soil:

None known On water:

6.4 Reference to other sections:

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

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:

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
Fatty acid reaction product	l	No data available

Monitoring procedures: None specified

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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

9.1 Information on basic physical and chemical properties:

Appearance: Liquid, red/brown

(physical state, colour etc.)

Odour: Hydrocarbon
Not determined

pH: 3 to 5 Melting/freezing point: < 0°C

Initial boiling point and

boiling range: 180 - 390°C
Flash point: 62°C
Evaporation rate: Not determined
Flammability (solid, gas): Not determined

Upper/lower flammability

or explosive limits:
Vapour pressure:
Vapour density:
Not determined

Solubility(ies): Dispersible in oil and water

Partition coefficient: Not determined

Auto-ignition temp.: >250°C

Decomposition temp.: Not determined **Viscosity at 20°C:** ≥ 100 cps

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

SECTION 9:

Physical and Chemical Properties

SECTION 10: Stability and Reactivity

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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 1.78 mg/L for the combined sexes and 1.72 mg/L for males rats and 1.82 mg/L for females.

Fatty acid No data available

reaction product Skin corrosion/irritation:

Causes skin irritation. Repeated exposure may cause skin dryness or cracking

Serious eye damage/irritation:

Causes mild eye irritation

Respiratory or skin sensitisation:

Not expected to cause respiratory or skin sensitisation

Germ cell mutagenicity:

Not expected to cause heritable genetic effects

Carcinogenicity:

Not expected to cause cancer

Reproductive toxicity:

Not expected to cause reproductive toxicity

STOT – single exposure:

Not expected to cause organ effects after a single exposure

STOT – repeated exposure:

May cause damage to organs through prolonged or repeated exposure. Dermal applicationat doses 125 mg/kg, 5 d/wk, for13 weeks resulted in decreased liver, thymus and spleen weights and altered bone marrowfunction. Microscopic alterations included liver hypertrophy and necrosis, decreasedhaematopoesis 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

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

Toxicological Information

SECTION 11:

SECTION 12: Ecological Information

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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

13.1 Waste treatment methods:

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

Authority	14.1 UN number	14.2 Proper Shipping Name	14.3 Class or division	Packing /	14.5 Environmental hazard	Other information
		Not classified				

14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

No applicable

SECTION 15:

SECTION 16:

Other Information

SECTION 13:

SECTION 14:

Disposal Considerations

Transport Information

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 Packa

15.2 Chemical safety assessment:

Chemical safety assessment has not been carried out

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 is 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

Harmful if inhaled H332

R-Phrases used in this document:

Xn; R20 Harmful by inhalation

Xn; R65 Harmful: may cause lung damage if swallowed

N; R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Xn; R66; Repeated exposure may cause skin dryness or cracking

Reasonable care has been taken in the preparation of this document to asses 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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