

# **Material Safety Data Sheet**

## Product and company identification

**Product name** 

: Y7BH972 SCALE INHIBITOR

Supplier

: Baker Petrolite

A Baker Hughes Company 12645 W. Airport Blvd. Sugar Land, TX 77478

For Product Information/MSDSs Call: 800-231-3606 (8:00 a.m. - 5:00 p.m. cst, Monday - Friday) 281-276-5400

**Material Uses** 

: Special: Scale Inhibitor.

Code Validation date : Y7BH972

Print date

10/28/2009. : 10/28/2009.

Version

: 2

Responsible name In case of emergency : Global Regulatory Affairs - Telephone 281-276-5400 or 800-231-3606

CHEMTREC: 800-424-9300 (U.S. 24 hour)

Baker Petrolite: 800-231-3606 (001)281-276-5400

CANUTEC: 613-996-6666 (Canada 24 hours)

CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

#### Hazards identification 2

Physical state

: Liquid. [Clear.]

Odor

Color

: Colorless to light yellow.

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Emergency overview** 

: CAUTION!

MAY CAUSE EYE IRRITATION.CORROSIVE TO METALS

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash

thoroughly after handling.

Routes of entry

: Dermal contact. Eye contact. Inhalation.

Potential acute health effects

Inhalation

No known significant effects or critical hazards.

Ingestion Skin

: No known significant effects or critical hazards.

Eyes

: No known significant effects or critical hazards. : Moderately irritating to eyes.

### Potential chronic health effects

## Over-exposure signs/symptoms

Inhalation

: None known.

Ingestion

: None known.

Skin

: None known.

: irritation, watering, redness

See toxicological information (section 11)

### Additional information

This product was corrosive to steel and aluminum using a Department of Transportation (DOT) acceptable method.

#### Composition/information on ingredients 3.

CAS number <u>Name</u> 30 - 60Trade secret. Organic phosphonate

#### First aid measures 4

Eye contact

: Get medical attention immediately. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion

; Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### Fire-fighting measures 5.

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous thermal decomposition products : carbon dioxide, carbon monoxide, phosphorus oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Accidental release measures 6

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Absorb with an inert material. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Dike spill area and do not allow product to reach sewage system or surface or ground water. Notify any reportable spill to authorities. (See section 12 for environmental risks and 13 for disposal information.) Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

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## 6. Accidental release measures

## 7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

: Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# 8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
No exposure limit value known.											

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Take off contaminated clothing and wash before re-use.

Personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands Eyes : Chemical-resistant gloves: Butyl rubber gloves. PVC gloves. Nitrile gloves.

: Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

Skin

: Wear long sleeves and other protective clothing to prevent repeated or prolonged skin contact.

# 9. Physical and chemical properties

Physical state

: Liquid. [Clear.]

Flash point

: Closed cup: >100°C (>212°F) [DIN 51 758]

Auto-ignition temperature

: Not available.

Flammable limits

: Not available.

Color

: Colorless to light yellow.

Odor

: Mild.

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### Physical and chemical properties 9.

: 1.5 to 1.8 [Conc. (% w/w): 1%] рH

: 1% in water.

Boiling/condensation point

: 100°C (212°F)

**Initial Boiling Point** Melting/freezing point : Not available. : -15°C (5°F)

Relative density Density

: 1,285 (20°C) : 10.7 (lbs/gal)

Vapor density

: Not available.

Odor threshold **Evaporation rate**  : Not available. : Not available.

VOC

: Not available.

Viscosity

: Not available.

Solubility (Water)

: Miscible

Vapor pressure

: Not available.

**Pour Point** 

: Not available.

Partition coefficient

: Not available.

(LogKow)

# 10 . Stability and reactivity

Chemical stability

: The product is stable.

Possibility of hazardous

: Under normal conditions of storage and use, hazardous reactions will not occur.

reactions Hazardous polymerization

: Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid

: No specific data.

Materials to avoid

: Reactive or incompatible with the following materials: oxidizing materials, metals and

Do not use aluminum for transportation, handling or storage. Do not use mild steel for transportation, handling or storage. Corrosive to mild steel and aluminum. Contact with some metals may produce hydrogen gas which is explosive and flammable.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Conditions of reactivity

: Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

# 11. Toxicological information

#### Acute toxicity Exposure Species Dose Result Product/ingredient name >6500 mg/kg LD50 Oral Rat Organic phosphonate >5000 mg/kg LD50 Oral Rat Rat >6500 mg/kg LD50 Oral Y7BH972 SCALE INHIBITOR

### **Chronic toxicity Remarks**

1) Organic phosphonate

Not available.

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## 12. Ecological information

Aquatic ecotoxicity

Product/ingredient name Y7BH972 SCALE INHIBITOR Result Acute EC50 >300 mg/L

Acute LC50 >1000 mg/L

**Species** Daphnia -Daphnia magna Exposure 48 hours

Fish - Rainbow

trout

96 hours

Conclusion/Summary

: Not available.

Biodegradability

Conclusion/Summary

: Not available.

# 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information	
DOT Classification	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains: Organic phosphonate)	8	111	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	•	
TDG Classification	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains: Organic phosphonate)		111		-	
IMDG Class	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains: Organic phosphonate)		III		Emergency schedules (EmS) F-A S-B	

PG\*: Packing group

**DOT Reportable** 

Marine pollutant

Not applicable.

Quantity

Not applicable.

**North-America NAERG** 

: 153

## 15. Regulatory information

**HCS Classification** 

: Irritating material

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Y7BH972 SCALE INHIBITOR: Immediate (acute) health hazard CERCLA: Hazardous substances.: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

: Not listed

United States inventory

: All components are listed or exempted.

(TSCA 8b)

<u>Canada</u> WHMIS (Canada)

: Class E: Corrosive material

Canada (CEPA DSL):

: All components are listed or exempted.

### 16. Other information

Label requirements

: MAY CAUSE EYE IRRITATION.

National Fire Protection Association (U.S.A.)

Flammability

Instability
Special

Date of printing

: 10/28/2009.

 $\overline{\mathcal{V}}$  Indicates information that has changed from previously issued version.

#### Notice to reader

NOTE: The information on this MSDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

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