

# 89960: Forum PB+2

## Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or mixture

**Product Name:** Forum PB+2  
**Product Code:** 89960  
**Product Use:** Thread compound, lubricant  
**Supplier:** Forum Energy Technologies  
10344 Sam Houston Park Drive, Suite 300  
Houston, TX 77064  
Tel: 713-351-7900  
[www.f-e-t.com](http://www.f-e-t.com)

**Emergency telephone number:** +1 813 248 0585, 24 hours

**E-mail address for questions regarding this SDS:** [sharons@socousa.com](mailto:sharons@socousa.com)

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

#### GHS Classification

|   |             |
|---|-------------|
| Acute oral toxicity   | Category 4  |
| Acute inhalation toxicity – dust-mist                       | Category 4  |
| Reproductive toxicity                                       | Category 1A |
| Specific target organ systemic toxicity (repeated exposure) | Category 1  |
| Acute aquatic toxicity                                      | Category 1  |
| Chronic aquatic toxicity                                    | Category 1  |

#### GHS label elements



#### **Signal Word:**

Danger

#### **Hazard statements:**

H302 – Harmful if swallowed

H332 – Harmful if inhaled

# 89960: Forum PB+2

## Safety Data Sheet



H360Df – May damage the unborn child. Suspected of damaging fertility.  
H372 – Causes damage to organs through prolonged or repeated exposure  
H410 – Very toxic to aquatic life with long lasting effects

### Precautionary statements:

P201 – Obtain special instructions before use  
P264 – Wash hands thoroughly after handling  
P270 – Do not eat, drink or smoke when using this product  
P271 – Use only outdoors in a well-ventilated area  
P273 – Avoid release to the environment  
P281 – Use personal protective equipment as required  
P308+P313 – If exposed or concerned: Get medical attention  
P405 – Store locked up

### Classification (EU Directives 1999/45/EC or 67/548/EEC)

Repr. Cat. 1; R61 – Repr. Cat. 3; R62 – Xn; R20/22 - R33 – N; R50/53

**Other hazards:** High pressure injection under skin is a medical emergency.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | EC no.    | CAS no.   | Weight % | Classification (67/548/EEC)   | Classification (1272/2008/EC)   |
|---------------|-----------|-----------|----------|---|---|
| Lead          | 231-100-4 | 7439-92-1 | 55-65    | Xn; R20/22 – R33<br>N; R50/53<br>Repr. Cat. 1;<br>R61<br>Repr. Cat. 1;<br>R62 | Acute Tox. 4 H302<br>Repr. 1A H360Df<br>STOT RE 1 H372<br>Acute Tox. 4 H332<br>Aquatic Acute 1 H400<br>Aquatic Chronic 1 H410 |

Full text of R and H statements used in this section are in Section 16.

### 4. FIRST AID MEASURES

**General:** If exposed or concerned, get medical attention or advice.  
**Inhalation:** Move exposed person to fresh air. Get medical attention if symptoms occur. No symptoms expected.  
**Ingestion:** Wash out mouth with water. Do not induce vomiting unless instructed to by medical personnel. Get medical attention if nausea or stomach pains occur.  
**Skin contact:** Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if irritation symptoms occur. High pressure injection under skin is a medical emergency.

# 89960: Forum PB+2

## Safety Data Sheet



**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 5 minutes, keeping eyelids open. Get medical attention if redness or irritation persists.

### 5. FIRE-FIGHTING MEASURES

**Suitable media:** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.  
**Not suitable:** Do not use water jet.  
**Combustion products:** Carbon monoxide, carbon dioxide, products of incomplete hydrocarbon combustion, lead oxides, zinc oxides.  
**Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear appropriate personal protection equipment (see section 8).  
**Environmental precautions:** Recover free product. Use suitable oil adsorbent and dispose of material in accordance with all regulations. Keep product out of sewers and watercourses, prevent soil penetration. Advise authorities if large amounts of product enters waterways or extensive land areas.

### 7. HANDLING AND STORAGE

**Handling:** Wear appropriate personal protection equipment (see section 8). Do not eat, drink or smoke when using. Wash thoroughly after handling. Follow good hygiene and housekeeping practices.  
**Storage:** Store in cool dry area in original or equivalent container in accordance with all regulations. Do not expose to extreme heat or flame. Store below 65°C, away from strong oxidizers and acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters:**

| Chemical name | CAS no.   | Control parameter           | Basis     |
|---------------|-----------|-----------------------------|-----------|
| Lead          | 7439-92-1 | TWA: 0.05 mg/m <sup>3</sup> | ACGIH TLV |

**Engineering controls:** Use with adequate ventilation.  
**Eye/face protection:** Safety glasses. Ensure eye bath is to hand.  
**Hand protection:** Protective gloves if prolonged or repeated contact is unavoidable.  
**Skin protection:** No additional protection required beyond normal industrial attire is required.  
**Respiratory protection:** No special measures required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and odor:** Black semi-solid, mild odor

# 89960: Forum PB+2

## Safety Data Sheet



|                                  |   |
|----------------------------------|---|
| <b>pH:</b>                       | Not applicable, insoluble in water                                |
| <b>Flash point:</b>              | >200°C (Cleveland open cup)                                       |
| <b>Evaporation rate:</b>         | No data   |
| <b>Upper flammability limit:</b> | Not applicable  |
| <b>Lower flammability limit:</b> | Not applicable  |
| <b>Vapor pressure:</b>           | No data   |
| <b>Vapor density:</b>            | No data   |
| <b>Relative density:</b>         | 2.6   |
| <b>Solubility:</b>               | Insoluble in water, soluble in alcohols and petroleum distillates |
| <b>Viscosity:</b>                | Cone penetration 300-330 (ASTM D217)                              |

### 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Chemical stability:</b>               | Stable  |
| <b>Conditions to avoid:</b>              | Extreme heat  |
| <b>Incompatible materials:</b>           | Strong oxidizers                                      |
| <b>Hazardous decomposition products:</b> | Harmful or flammable vapors, lead oxides, zinc oxides |

### 11. TOXICOLOGICAL INFORMATION

#### Potential acute health effects

|                        |   |
|------------------------|---|
| <b>Acute toxicity:</b> |   |
| <b>Ingestion:</b>      | Harmful if swallowed  |
| <b>Skin contact:</b>   | No known effect   |
| <b>Inhalation:</b>     | Harmful if inhaled, but not considered significant route of entry |
| <b>Irritation:</b>     | May cause mild redness and discomfort on contact with eyes        |
| <b>Corrosivity:</b>    | Not corrosive   |

#### Potential chronic health effects

|                                |  |
|--------------------------------|--|
| <b>Sensitization:</b>          | Not a sensitizer   |
| <b>Repeated dose toxicity:</b> | Repeated exposure may cause drying of skin from loss of skin oils  |
| <b>Carcinogenicity:</b>        | No ingredients listed as carcinogens   |
| <b>Mutagenicity:</b>           | Not mutagenic  |
| <b>Reproductive toxicity:</b>  | May damage the unborn child. Suspected of damaging fertility.  |
| <b>STOT repeated exposure:</b> | May causes damage to organs (central nervous system, reproductive system) through prolonged or repeated exposure |

### 12. ECOLOGICAL INFORMATION

|                     |  |
|---------------------|--|
| <b>Ecotoxicity:</b> | Very toxic to aquatic life with long lasting effects |
|---------------------|--|

| Chemical name | Toxicity to algae | Toxicity to fish  | Toxicity to daphnia                |
|---------------|-------------------|---|------------------------------------|
| Lead          |                   | Ciprinus carpio, 96h, LC50: 0.44 mg/L<br>Oncorhynchus mykiss, 96h, LC50:<br>1.17 mg/L | Daphnia magna, 48h, EC50: 600 µg/L |

# 89960: Forum PB+2

## Safety Data Sheet



|  |  |  |  |
|--|--|--|--|
|  |  | Oncorhynchus mykiss, 96h, LC50:<br>1.32 mg/L |  |
|--|--|--|--|

**Persistence/degradability:** No information available  
**Mobility:** No information available  
**Other adverse effects:** No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste disposal:** Generation of waste should be avoided or minimized where possible. Empty containers may contain residue. Dispose of as hazardous waste via licensed waste disposal operator. Follow all applicable regulations.

### 14. TRANSPORT INFORMATION

#### Transport information according to US DOT

**UN number:** UN3077  
**Proper shipping name:** RQ, Environmentally hazardous substance, solid, n.o.s. (lead)  
**Hazard class:** Class 9  
**Packing group** PGIII

#### Transport information according to ADR, RID, ADN, IMDG, ICAO, IATA

**UN number:** UN3077  
**Proper shipping name:** Environmentally hazardous substance, solid, n.o.s. (lead)  
**Hazard class:** Class 9  
**Packing group** PGIII  
**Additional information:** Marine pollutant

### 15. REGULATORY INFORMATION

#### US Regulations

**SARA 302 Components:** Chemicals in this material that are subject to the reporting requirements of SARA Title II, Section 302: Lead, CAS-No. 7439-92-1  
**SARA 313 Components:** Lead, CAS-No. 7439-92-1  
**SARA 311/312 Hazards:** Acute health hazard, chronic health hazard

#### State Regulations

**California Prop 65:** WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm (lead and lead compounds).  
**United States inventory (TSCA):** All ingredients listed or exempt.  
**Massachusetts Right to Know:** Lead, CAS-No. 7439-92-1; zinc, CAS-No. 7440-66-6; copper, CAS-no. 7440-50-8  
**Pennsylvania Right to Know:** Lead, CAS-No. 7439-92-1; zinc, CAS-No. 7440-66-6; copper, CAS-no. 7440-50-8  
**New Jersey Right to Know:** Lead, CAS-No. 7439-92-1; zinc, CAS-No. 7440-66-6; copper, CAS-no. 7440-50-8

# 89960: Forum PB+2

## Safety Data Sheet

### International regulations

**Canada: WHMIS Classification:** D2A. **WHMIS:** This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. **Canada Domestic Substances List:** All ingredients listed or exempt.

**Europe inventory (EINECS):** All ingredients listed or exempt.

**Australia inventory (AICS):** All ingredients listed or exempt.

**China inventory (IECSC):** All ingredients listed or exempt.

**Philippines inventory (PICCS):** All ingredients listed or exempt.

### 16. OTHER INFORMATION

#### Full text of R phrases used in Sections 2 and 3:

R20/22 – Harmful by inhalation and if swallowed

R33 – Danger of cumulative effects

R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R61 – May cause harm to the unborn child

R62 – Possible risk of impaired fertility

#### Full text of H phrases used in Sections 2 and 3:

H302 – Harmful if swallowed

H332 – Harmful if inhaled

H360Df – May damage the unborn child. Suspected of damaging fertility

H372 – Causes damage to organs through prolonged or repeated exposure

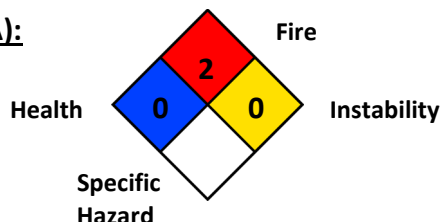
H400 – Very toxic to aquatic life

H410 – Very toxic to aquatic life with long lasting effects

### Hazardous Material Information System (USA):

|                     |    |
|---------------------|----|
| HEALTH              | 2* |
| FIRE                | 1  |
| REACTIVITY          | 0  |
| PERSONAL PROTECTION | B  |

### National Fire Protection Association (USA):



**Revision information:** Original GHS issue 12 May 2015. Rev 1: added info to Section 15, removed redundant info in Section 16.

**END OF SAFETY DATA SHEET**