Material Safety Data Sheet
Sulfuric Acid 66 DEG BE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Sulfuric Acid 66 DEG BE
Product Use Description: Acid.

Manufacturer or supplier's details
Company: Nexeo Solutions LLC
Address: 3 Waterway Square Place Suite 1000
Woodlands, Tx. 77380

Emergency telephone number:
Health North America: 1-855-NEXEO4U (1-855-639-3642)
Health International: 1-855-NEXEO4U (1-855-639-3642)
Transport North America: CHEMTREC 800.424.9300

Additional Information:
Responsible Party: Product Safety Group
E-Mail: msds@nexeosolutions.com
MSDS Requests: 1-855-429-2661
MSDS Requests Fax: 1-281-500-2370
Website: www.nexeosolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Skin corrosion: Category 1A

GHS Label element
Hazard pictograms: 

Signal word: Danger
Hazard statements: H314 Causes severe skin burns and eye damage.

Precautionary statements: 
Prevention: P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse
sk with water/shower.
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Potential Health Effects

Carcinogenicity:
IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>clear, cloudy, colourless, light yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Hazard Summary</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-93-9</td>
<td>Sulfuric acid</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

Synonyms: Sulfuric Acid 66 DEG BE Baume
SECTION 4. FIRST AID MEASURES

General advice
- Move out of dangerous area.
- Consult a physician.
- Show this safety data sheet to the doctor in attendance.
- Do not leave the victim unattended.

If inhaled
- If unconscious place in recovery position and seek medical advice.
- If symptoms persist, call a physician.

In case of skin contact
- Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- If on skin, rinse well with water.
- If on clothes, remove clothes.

In case of eye contact
- Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
- In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Continue rinsing eyes during transport to hospital.
- Remove contact lenses.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.

If swallowed
- Clean mouth with water and drink afterwards plenty of water.
- Keep respiratory tract clear.
- Do NOT induce vomiting.
- Do not give milk or alcoholic beverages.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.
- Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media
- Dry chemical
- Carbon dioxide (CO2)

Unsuitable extinguishing media
- High volume water jet
- Water

Specific hazards during firefighting
- Do not allow run-off from fire fighting to enter drains or water courses.
- Sulfur oxides
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Hazardous combustion products : sulfur oxides

Specific extinguishing methods : Use a water spray to cool fully closed containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
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Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not store near acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-93-9</td>
<td>Sulfuric acid</td>
<td>TWA (Thoracic fraction)</td>
<td>0.2 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
### Material Safety Data Sheet

**Sulfuric Acid 66 DEG BE**

**Version 1.1**

**Revision Date:** 06/27/2014

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>clear, cloudy, colourless, light yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 1 @ 25 °C (77 °F)</td>
</tr>
<tr>
<td>Freezing Point (Melting point/range)</td>
<td>-31 - -1.1 °C (-24 - 30.0 °F)</td>
</tr>
<tr>
<td>Boiling Point (Boiling point/boiling range)</td>
<td>217 - 330 °C (423 - 626 °F)</td>
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<tr>
<td>Flash point</td>
<td>No data available</td>
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<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Burning rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
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<tr>
<td>Vapour pressure</td>
<td>&lt; 0.3 mmHg @ 25 °C (77 °F)</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>3.4AIR=1</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.8347 - 1.8437 @ 25 °C (77 °F)</td>
</tr>
<tr>
<td>Density</td>
<td>Estimated 1.837 g/cm³ @ 20 °C (68 °F)</td>
</tr>
<tr>
<td></td>
<td>15.3 - 15.4 lb/gal @ 25 °C (77 °F)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>completely miscible</td>
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<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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Auto-ignition temperature : No data available
Thermal decomposition : 340 °C

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air. Reacts with organic materials and may cause ignition of finely divided materials on contact.
Conditions to avoid : Avoid contact with combustible material (paper, wool, oil).
Incompatible materials : alkalis
Metals
carbide
chlorates
fuminates
nitrates
Organic materials
Strong oxidizing agents
strong reducing agents
water
Sulphur compounds
Hazardous decomposition products : corrosive vapors
Sulphur oxides
Toxic fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:
7664-93-9:
Acute oral toxicity : LD50 (rat): 2,140 mg/kg
Acute inhalation toxicity : LC50 (rat): 210 mg/l
Exposure time: 2 h

Acute dermal toxicity: Remarks: No data available

**Skin corrosion/irritation**

**Product:**
Remarks: Extremely corrosive and destructive to tissue.

**Components:**
7664-93-9:
Species: rabbit
Result: Extremely corrosive and destructive to tissue.
Remarks: Skin irritation, Category 1

**Serious eye damage/eye irritation**

**Product:**
Remarks: May cause irreversible eye damage.

**Components:**
7664-93-9:
Species: rabbit
Result: Risk of serious damage to eyes.
Remarks: Eye irritation, Category 1

**Respiratory or skin sensitisation**

**Components:**
7664-93-9:
Remarks: No data available

**Germ cell mutagenicity**

**Components:**
7664-93-9:
Genotoxicity in vitro:
- Test Type: Chromosome aberration test in vitro
  Test species: Chinese hamster ovary (CHO)
  Metabolic activation: with and without metabolic activation
  Result: positive
- Test Type: Ames test
  Test species: Salmonella typhimurium
  Metabolic activation: with and without metabolic activation
  Result: negative
Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test.

Carcinogenicity

Components:
7664-93-9:
Species: mouse, (male and female)  
Application Route: Oral  
Exposure time: lifetime  
Dose: 0.2 mL of 0.2% aq solution  
Frequency of Treatment: 1 days/week  
Result: Limited evidence of carcinogenic effects  
Symptoms: Local irritation, tumors

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

Reproductive toxicity

Components:
7664-93-9:
Effects on fertility : Remarks: No data available

Effects on foetal development : Species: mouse  
Application Route: inhalation (dust/mist/fume)  
Dose: 0, 5, 20 mg/m³  
Duration of Single Treatment: 10 d  
General Toxicity Maternal: NOAEC: 5.7 mg/m³  
Teratogenicity: NOAEC: 19.3  
Developmental Toxicity: NOAEC: 19.3 mg/m³  
Method: OECD Test Guideline 414  
Result: No teratogenic effects.  
GLP: no

Reproductive toxicity - Assessment : Fertility classification not possible from current data. Did not show teratogenic effects in animal experiments.

STOT - single exposure

Product:  
No data available

Components:  
No data available
STOT - repeated exposure

Product:
No data available

Components:
No data available

Repeated dose toxicity

Components:
7664-93-9:
Species: rat, female
LOAEL: 0.3 mg/m^3
Application Route: Inhalation
Exposure time: 28 d
Number of exposures: 6 h/d, 5 d/wk
Dose: 0.00, 0.30, 1.38, 5.52 mg/m^3
Method: OECD Test Guideline 412
GLP: yes
Target Organs: Respiratory Tract
Symptoms: Local irritation

Aspiration toxicity

Further information

Product:
Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
7664-93-9:
Toxicity to fish: LC50 (Gambusia affinis (Mosquito fish)): 42 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae:
EC50 (Desmodesmus subspicatus): > 100 mg/l
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End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Persistence and degradability

**Components:**
7664-93-9:

Biodegradability : Remarks: No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects
No data available

**Product:**

Regulation
40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
SECTION 14. TRANSPORT INFORMATION

IATA (International Air Transport Association): UN1830, Sulphuric acid, 8, II
IMDG (International Maritime Dangerous Goods): UN1830, SULPHURIC ACID, 8, II
DOT (Department of Transportation): UN1830, Sulfuric acid, 8, II

SECTION 15. REGULATORY INFORMATION

OSHA Hazards: Corrosive to skin, Severe eye irritant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards
SARA 311/312: Acute Health Hazard

SARA 302
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489).

Clean Water Act
The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
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Revision Date: 06/27/2014

7664-93-9  Sulfuric acid  100 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

7664-93-9  Sulfuric acid  100 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

7664-93-9  Sulfuric acid  90 - 100 %

Pennsylvania Right To Know

7664-93-9  Sulfuric acid  90 - 100 %
7732-18-5  Water  10 - 20 %

New Jersey Right To Know

7664-93-9  Sulfuric acid  90 - 100 %
7732-18-5  Water  10 - 20 %

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1907/2006 (EU)</td>
<td>n (Negative listing) (Not in compliance with the inventory)</td>
</tr>
<tr>
<td>Switzerland. New notified substances and declared preparations</td>
<td>y (positive listing) (The formulation contains substances listed on the Swiss Inventory)</td>
</tr>
<tr>
<td>United States TSCA Inventory</td>
<td>y (positive listing) (On TSCA Inventory)</td>
</tr>
<tr>
<td>Canadian Domestic Substances List (DSL)</td>
<td>y (positive listing) (All components of this product are on the Canadian DSL.)</td>
</tr>
<tr>
<td>Australia Inventory of Chemical Substances (AICS)</td>
<td>y (positive listing) (On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>New Zealand. Inventory of Chemical Substances</td>
<td>n (Negative listing)</td>
</tr>
</tbody>
</table>
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| **Japan. ENCS - Existing and New Chemical Substances Inventory** | (Not in compliance with the inventory) |
| **Japan. ISHL - Inventory of Chemical Substances (METI)** | y (positive listing) |
| **Korea. Korean Existing Chemicals Inventory (KECI)** | y (positive listing) (On the inventory, or in compliance with the inventory) |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | y (positive listing) (On the inventory, or in compliance with the inventory) |
| **China. Inventory of Existing Chemical Substances in China (IECSC)** | y (positive listing) (On the inventory, or in compliance with the inventory) |

## SECTION 16. OTHER INFORMATION

### Further information

**NFPA:**

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Flammability" /></td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

- Special hazard.

**HMIS III:**

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>3*</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

- $0 = \text{not significant}$, $1 = \text{Slight}$,
- $2 = \text{Moderate}$, $3 = \text{High}$,
- $4 = \text{Extreme}$, $* = \text{Chronic}$

**MSDS Number:** 100000009623
The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

Legacy MSDS: R0001174

Material number: 16038250, 747387, 746673, 670073, 669827, 592090, 572695, 549278, 554154, 52439, 105608, 55212, 74712, 89466, 55684, 107474, 56633, 56705, 88445, 72048, 152711, 88318, 89725, 108413, 87701, 55254, 106107, 153270, 136507, 170942, 20261, 20260

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>EC50</td>
<td>Effective Concentration</td>
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<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
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<td>EC50</td>
<td>Effective Concentration 50%</td>
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<td>No Observed Effect Concentration</td>
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<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
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<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
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<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
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<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
</tr>
<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
</tr>
<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
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<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<td>Greater Than or Equal To</td>
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<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<td>TLV</td>
<td>Threshold Limit Value</td>
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<td>Inventory of Existing Chemical Substances in China</td>
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<td>-------------------------------------------</td>
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<td>Lethal Concentration 50%</td>
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