



## Safety Data Sheet

### Identification of the substance/mixture and of the company

- Product Name 

Reference Material of Sulfur in Fuel Oil Certified by The Japan Petroleum Institute, Sulfur Content 0mass% level
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- Product Code 

3200044015
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- SDS No 

412
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- SDS Drawing No. 

I2005344000
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- Identified Uses 

An analytical standard for determining sulfur in fuel oil
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- Company Information HORIBA, Ltd.  
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**SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

Revision number: 8

Revision date: 07/23/2015

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

**Product name:** Reference Material of Sulfur in Fuel Oil Certified by The Japan Petroleum Institute, Sulfur Content 0mass% level  
**Product code:** S0316

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses:** Reagents

**1.3 Details of the supplier of the safety data sheet****Supplier:**

TCI EUROPE N.V.  
 Boerenveldseweg 6  
 Haven 1063  
 B-2070 Zwijndrecht  
 Telephone: +32(0)3 735 07 00  
 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

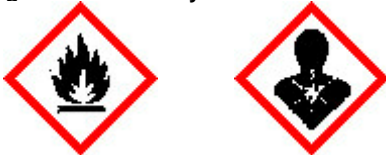
**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****PHYSICAL HAZARDS**

**Flammable liquids** Category 3

**HEALTH HAZARDS**

**Aspiration hazard** Category 1

**ENVIRONMENTAL HAZARDS** Not classified

**2.2 Label elements****Pictograms or hazard symbols****Signal word**

Danger

**Hazard statements**

H226-Flammable liquid and vapour.  
 H304-May be fatal if swallowed and enters airways.

**Precautionary statements****[Prevention]**

P210-Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233-Keep container tightly closed.

P241+P242+P243-Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against ignition by the static discharge and the spark.

P280-Wear protective gloves/eye protection/face protection.

**[Response]**

P301+P310-IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331-Do NOT induce vomiting.

P303+P361+P353-IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**[Storage]**

P403+P235-Store in a well-ventilated place. Keep cool.

P405-Store locked up.

**[Disposal]**

P501-Dispose of contents/container through a waste management company authorized by the local government

**SECTION 3: Composition/information on ingredients****3.1 Substances****S0316**

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### **SECTION 3: Composition/information on ingredients**

<b>Components:</b>	Reference Material of Sulfur in Fuel Oil Certified by The Japan Petroleum Institute, Sulfur Content 0mass% level
<b>Percent:</b>	....
<b>CAS Number:</b>	NA
<b>Chemical Formula:</b>	----

### **SECTION 4: First aid measures**

#### **4.1 Description of first aid measures**

<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
<b>Skin contact:</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion:</b>	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
<b>Protection of first-aiders:</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

#### **4.2 Most important symptoms and effects, both acute and delayed**

Headache, Dizziness, Vomiting

#### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

#### **5.2 Special hazards arising from the substance or mixture**

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. No information available

#### **5.3 Advice for firefighters**

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### **6.2 Environmental precautions**

Prevent product from entering drains.

#### **6.3 Methods and materials for containment and cleaning up**

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

#### **6.4 Reference to other sections**

For disposal see section 13.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. Shake well before use.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from incompatible materials such as oxidizing agents.

#### **7.3 Specific end use(s)**

No further relevant information available.

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## **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters	No data available
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state (20°C):	Liquid
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	No data available
Flash point:	42.5°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available.
Vapour density:	No data available
Relative density:	0.7363g/cm <sup>3</sup> (15°C)
Solubility(ies):	
[Water]	Insoluble
[Other solvents]	No data available
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	1.061 mm <sup>2</sup> /s (30°C)

9.2 Other safety information Information on the description concerns Lot.No.150042. The physical properties value etc. might change greatly according to "Lot.No." and note it, please.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper conditions.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	Spark, Open flame, Static discharge
10.5 Incompatible materials	Oxidizing agents, Acids, Bases, Halogens
10.6 Hazardous decomposition products	No information available

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available

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**SECTION 11: Toxicological information**

Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available

**SECTION 12: Ecological information****12.1 Toxicity**

Fish:	No data available
Crustacea:	No data available
Algae:	No data available

**12.2 Persistence and degradability** No data available

**12.3 Bioaccumulative potential** No data available

**12.4 Mobility in soil**

Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law constant(PaM <sup>3</sup> /mol):	No data available

**12.5 Results of PBT and vPvB assessment**

PBT:	Not applicable
vPvB:	Not applicable

**12.6 Other adverse effects** No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

**SECTION 14: Transport information**

**14.1 UN number** 1268

**14.2 UN proper shipping name**

ADR/RID	Petroleum distillates, n.o.s.
IMDG/IMO	Petroleum distillates, n.o.s.
ICAO/IATA	Petroleum distillates, n.o.s.

**14.3 Transport hazard class(es)**

ADR/RID	3: Flammable liquid.
IMDG/IMO	3: Flammable liquid.
ICAO/IATA	3: Flammable liquid.

**14.4 Packaging group**

ADR/RID	III
IMDG/IMO	III
ICAO/IATA	III

**14.5 Environmental hazards**

Marine pollutant	-
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**14.6 Special precautions for user** No data available

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006	Not listed
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**15.2 Chemical safety assessment** A chemical safety assessment has not been carried out.

**SECTION 16: Other information**

Prepared by:	TCI EUROPE N.V.
Issue date:	07/23/2015

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This SDS was prepared sincerely on the basis of the information we could obtain, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet**

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