

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Sulfur in B20 Biodiesel Std, 50ppm (150-440-075)

Revision: 21.01.2026

Product code: AC18.06067

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Sulfur in B20 Biodiesel Std, 50ppm (150-440-075)

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

###### Use of the substance/mixture

Reagents and laboratory chemicals  
Only for laboratory and analysis purposes.

###### Uses advised against

Do not use for private purposes (household).

##### 1.3. Details of the supplier of the safety data sheet

###### Details of the supplier of the safety data sheet

Company name: AnalytiChem Services, Unipessoal, Lda  
 Street: Rua de Júlio Dinis 676 7º  
 Place: P-4050-320 Porto  
 Telephone: +351 226002917  
 E-mail: info@analytichem.com  
 Contact person: SDS service department  
 E-mail: SDS@analytichem.com  
 Internet: www.analytichem.com  
 Responsible Department: SDS service department

###### Supplier or manufacturer details

Company name: AnalytiChem Canada Inc.  
 Québec, CANADA  
 Street: 21800 Clark Graham Ave  
 Place: CDN-H9X 4B6 Baie-D'Urfé  
 Telephone: +1 (800) 361-6820 Telefax: +1 (800) 253-5549  
 E-mail: info@analytichem.com  
 Contact person: SDS service department  
 E-mail: SDS@analytichem.com  
 Internet: www.analytichem.com  
 Responsible Department: AnalytiChem:  
 EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20  
 EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200  
 EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848  
 UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500  
 USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
 Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
 Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
 +353 1 901 4670 (CHEMTREC)

##### 1.4. Emergency telephone number:

###### Further Information

No data available

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**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008

Asp. Tox. 1; H304

Full text of hazard statements: see SECTION 16.

**2.2. Label elements**

Regulation (EC) No 1272/2008

**Hazard components for labelling**

"Distillates (petroleum), hydro-treated light; Kerosine - unspecified"

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H304 May be fatal if swallowed and enters airways.

**Precautionary statements**

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 Do NOT induce vomiting.
- P405 Store locked up.
- P501 Dispose of contents/container to hazardous or special waste collection point.

**2.3. Other hazards**

No data available

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

**3.2. Mixtures**

**Chemical characterization**

Biodiesel

**Relevant ingredients**

CAS No	Chemical name	Quantity
	EC No      Index No      REACH No	
	Classification (Regulation (EC) No 1272/2008)	
64742-47-8	"Distillates (petroleum), hydro-treated light; Kerosine - unspecified"	80 - < 85 %
	265-149-8      649-422-00-2	
	Asp. Tox. 1; H304	
61788-61-2	Fatty acids, tallow, methyl esters	10 - < 15 %
	262-989-7	
68990-52-3	Vegetable fatty acid methyl ester	10 - < 15 %
	273-606-8      01-2119485821-32	

Full text of H and EUH statements: see section 16.

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64742-47-8	265-149-8	"Distillates (petroleum), hydro-treated light; Kerosine - unspecified"	80 - < 85 %
		inhalation: LC50 = > 5,28 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
68990-52-3	273-606-8	Vegetable fatty acid methyl ester	10 - < 15 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	

**Further Information**

No data available

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

No data available

**After inhalation**

Provide fresh air.

Call a doctor if you feel unwell.

**After contact with skin**

Wash immediately with: Water, Soap

Take off immediately all contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth.

Do NOT induce vomiting.

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

No data available

**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**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

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

Combustible liquids

Hazardous combustion products

In case of fire may be liberated:

 Carbon dioxide (CO<sub>2</sub>)

Carbon monoxide

Sulphur oxides

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In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

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

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Use water spray jet to protect personnel and to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

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

#### **General advice**

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Take precautionary measures against static discharges.

#### **For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe vapour/aerosol.

#### **For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

### **6.3. Methods and material for containment and cleaning up**

#### **For containment**

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal.

#### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

#### **Other information**

Provide adequate ventilation.

Do not breathe vapour/aerosol.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

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

#### **Advice on safe handling**

Handle and open container with care.

When using do not eat, drink, smoke, sniff.

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Keep container tightly closed.  
 Use personal protection equipment.  
 Use extractor hood (laboratory).  
 Do not breathe vapour/aerosol.  
 Provide adequate ventilation.

**Advice on protection against fire and explosion**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Take precautionary measures against static discharges.  
 In case of warming:  
 Vapours are heavier than air, spread along floors and form explosive mixtures with air.

**Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs.  
 The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

**Further information on handling**

Take off immediately all contaminated clothing and wash it before reuse.  
 Draw up and observe skin protection programme.  
 Wash hands and face before breaks and after work and take a shower if necessary.

**7.2. Conditions for safe storage, including any incompatibilities**
**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

National regulations

**Further information on storage conditions**

Keep cool. Protect from sunlight.

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

Laboratory chemicals  
 Only for laboratory and analysis purposes.

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
-	Mineral Oil pure, highly & severely refined (Inhalable)	-	5		TWA (8 h)	

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
68990-52-3	Vegetable fatty acid methyl ester			
Worker DNEL, long-term		inhalation	systemic	49,3 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	14 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day

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#### PNEC values

CAS No	Substance	
Environmental compartment		Value
68990-52-3	Vegetable fatty acid methyl ester	
Freshwater		2,504 mg/l
Freshwater (intermittent releases)		25,04 mg/l
Marine water		0,25 mg/l
Freshwater sediment		10,4 mg/kg
Marine sediment		1,04 mg/kg
Micro-organisms in sewage treatment plants (STP)		520 mg/l

#### Additional advice on limit values

Observe in addition any national regulations!

#### 8.2. Exposure controls

##### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

goggles

Face protection umbrella

##### Hand protection

Tested protective gloves must be worn

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

##### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

##### Thermal hazards

No data available

##### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	amber	
Odour:	like: SULPHUR	
Odour threshold:	No data available	
Melting point/freezing point:		No data available

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Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH-Value:	No data available
Viscosity / kinematic:	No data available
Water solubility:	No data available
Solubility in other solvents	
No data available	
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	No data available
Dispersion stability:	No data available
Vapour pressure:	No data available
Vapour pressure:	No data available
Density:	~0.8 g/cm <sup>3</sup>
Relative density:	No data available
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available

**9.2. Other information**
**Information with regard to physical hazard classes**
**Explosive properties**

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

**Sustained combustibility:**

No data available

**Self-ignition temperature**

Solid:

No data available

Gas:

No data available

**Oxidizing properties**

No data available

**Other safety characteristics**
**Evaporation rate:**

No data available

**Solvent separation test:**

No data available

**Solvent content:**

No data available

**Solid content:**

No data available

**Sublimation point:**

No data available

**Softening point:**

No data available

**Pour point:**

No data available

No data available

**Viscosity / dynamic:**

No data available

**Flow time:**

No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

In case of warming:  
Vapours may form explosive mixtures with air.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Oxidising agent

**10.4. Conditions to avoid**

Heat  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

in case of fire, see:  
SECTION 5: Firefighting measures

**Further information**

No data available

**SECTION 11: Toxicological information**
**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**
**Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-47-8	"Distillates (petroleum), hydro-treated light; Kerosine - unspecified"				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1992)	EPA OTS 798.1175
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1992)	EPA OTS 798.1100
	inhalation (4 h) vapour	LC50 > 5,28 mg/l	Rat	Study report (1987)	OECD Guideline 403
68990-52-3	Vegetable fatty acid methyl ester				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1984)	other: AFNOR NF T 03-021
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1994)	EPA OPPTS 870.1200

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.  
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

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**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Information on likely routes of exposure**

There are no data available on the mixture itself.

**Specific effects in experiment on an animal**

There are no data available on the mixture itself.

**Additional information on tests**

There are no data available on the mixture itself.

**Practical experience**

There are no data available on the mixture itself.

**11.2. Information on other hazards**
**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other information**

No data available

**Further information**

No data available

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

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-47-8	"Distillates (petroleum), hydro-treated light; Kerosine - unspecified"					
	Acute fish toxicity	LL50 2 - 5 mg/l	96 h	Oncorhynchus mykiss	Study report (1994)	OECD Guideline 203
	Acute algae toxicity	ErC50 8,3 mg/l	72 h	Raphidocelis subcapitata	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EL50 1,4 mg/l	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
68990-52-3	Vegetable fatty acid methyl ester					
	Acute algae toxicity	ErC50 ca. 73729 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	EU Method C.3
	Acute crustacea toxicity	EC50 ca. 2504 mg/l	48 h	Daphnia magna	REACH Registration Dossier	EU Method C.2

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

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**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
68990-52-3	Vegetable fatty acid methyl ester	> 6,2

**BCF**

CAS No	Chemical name	BCF	Species	Source
68990-52-3	Vegetable fatty acid methyl ester	ca. 3	Mitylus edulis	Study report (1997)

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Do not allow to enter into surface water or drains.

**Further information**

There are no data available on the mixture itself.

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

Send to a physico-chemical treatment facility under observation of official regulations .

Do not allow to enter into surface water or drains.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**
**Land transport (ADR/RID)**
**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**
**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**
**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**
**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

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**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

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

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to Directive

Not subject to 2012/18/EU (SEVESO III)

2012/18/EU (SEVESO III):

**National regulatory information**
**SECTION 16: Other information**
**Abbreviations and acronyms**

Asp. Tox. 1: Aspiration hazard, hazard category 1

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Asp. Tox. 1; H304	Calculation method

**Relevant H and EUH statements (number and full text)**

H304 May be fatal if swallowed and enters airways.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*