

#### SAFETY DATA SHEET

**Fuel Stabilizer** 

Revision: 05/12/2014

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Supersedes Revision: 08/15/2013

## Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 **Product Code:** C290, C292 Fuel Stabilizer **Product Name:** 

## Section 2. Hazards Identification

- **Classification of the Substance or Mixture:** 2.1
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute Toxicity: Inhalation, Category 4 Acute Toxicity: Oral, Category 4 Acute Toxicity: Skin, Category 4 Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2A

Skin Sensitization, Category 1 Carcinogenicity, Category 2

Aquatic Toxicity (Acute), Category 1 **Aquatic Toxicity (Chronic), Category 1** 

Flammable Liquids, Category 4

- 2.1.2 Classification according to Directive 1999/45/EC:
- 2.2 Label Elements:
- Labeling according to Regulation (EC) No 1272/2008 [CLP]:







#### **GHS Signal Word:**

Warning

#### **GHS Hazard Phrases:**

H332: Harmful if inhaled.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

#### **GHS Precaution Phrases:**

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.



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P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P362+364: Take off contaminated clothing and wash it before reuse.

P272: Contaminated work clothing should not be allowed out of the workplace.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P281: Use personal protective equipment as required.

P273: Avoid release to the environment.

#### **GHS Response Phrases:**

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

#### **GHS Storage and Disposal Phrases:**

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

P405: Store locked up.

#### 2.2.2 Labeling according to Directive 1999/45/EC:

#### **Hazard Rating System:**



**2.3** Adverse Human Health Ingestion: Nausea, vomiting, diarrhea.

Effects and Symptoms: Inhalation: Shortness of breath, dizziness, fainting.

Skin: Redness or burning sensation.

Eyes: Irritation and tearing.

# Section 3. Composition/Information on Ingredients

CAS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
68476-30-2	Fuel oil, no. 2	78.0 -98.0 %	270-671-4 649-225-00-1	Xn; R40 Carcinogen 2: H351
1330-20-7	Xylene (mixed isomers)	< 1.0 %	215-535-7 601-022-00-9	Xn; R10-20/21-38 Flam. Liq. 3: H226 Acute Tox.(D) 4: H312 Skin Corr. 2: H315 Acute Tox.(I) 4: H332
128-39-2	Butyl phenol, (2,6-Di-t-)	< 1.0 %	204-884-0 NA	N;Xi; R43-51/53-36/37/38 Skin Corr. 2: H315 Aquatic (A) 1: H400 Aquatic (C) 1: H410
94-91-7	Phenol,2,2'-(1-methyl-1,2-ethanediyl)bis(nitrilomethyl idyne)bis-	< 1.0 %	202-374-2 NA	No phrases apply. Flam. Liq. 3: H226 Acute Tox.(O) 4: H302 Skin Sens. 1: H317 Skin Corr. 2: H315 Eye Damage 2A: H319



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Aquatic (C) 3: H412

100-41-4 Ethylbenzene < 0.2 % 202-849-4 F; Xn; R11-20

601-023-00-4 Flam. Liq. 2: H225

Acute Tox.(I) 4: H332

732-26-3 2,4,6-Tri-tert-butylphenol < 0.018 % 211-989-5 Xn;N; R22-43-50/53-36/37/38

NA Eye Damage 2A: H319 Aquatic (A) 1: H400

Aquatic (A) 1: 11400 Aquatic (C) 1: H410

## **Section 4. First Aid Measures**

**4.1 Description of First Aid**If swallowed, do not induce vomiting. If affected person is fully conscious, give one glass

**Measures:** of water to drink. Never give anything by mouth to an unconscious person. If inhaled,

remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of skin contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Call physician immediately if adverse reaction occurs.

**Note for the Doctor:** Aspiration hazard if swallowed. Delayed symptoms of chemical pneumonitis may occur

after moderate physical exertion. Observe for a minimum of 48 hours.

## **Section 5. Fire Fighting Measures**

**5.1 Suitable Extinguishing** Use water spray (fog), foam, dry chemicals, or carbon dioxide.

Media:

and Hazards:

**5.2** Flammable Properties Combustible liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in

low or confined areas, travel considerable distance to source of ignition, and flash back.

Runoff to sewer may cause fire or explosion hazard.

Flash Pt: 66.00 C (150.8 F) Method Used: Pensky-Marten Closed Cup

**Explosive Limits:** LEL: 0.6 UEL: 4.7

**Autoignition Pt:** ~ 257.00 C (494.6 F)

**5.3 Fire Fighting** As in any fire, wear a self-contained breathing apparatus in pressure-demand,

**Instructions:** MSHA/NIOSH (approved or equivalent), and full protective gear.

#### Section 6. Accidental Release Measures

6.3 Methods and Material Pers
For Containment and sour
Cleaning Up: mat

Personal protection: Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Do not touch or walk through spilled material.

Environmental Precautions and Clean-Up Methods: Contain spilled material. For small spills, add adsorbent (soil, sand, oil-dri) and use a non-sparking shovel or other means to transfer material to a sealed, appropriate, and labeled, container for disposal. For large spills, dike spilled material to ensure runoff does not reach a sewer, drain, or waterway. Place spilled material in an in an appropriate and labeled container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waters.

# Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling:
Keep away from heat, sparks, and flame. Avoid contact with eyes, skin, and clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion proof electrical equipment, including ventilation, lighting, and handling

equipment. Keep out of the reach of children.



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7.2 Precautions To Be Taken in Storing:

Store in a segregated and approved area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep container in a well ventilated place. Store locked up.

# **Section 8. Exposure Controls/Personal Protection**

#### 8.1 Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
68476-30-2	Fuel oil, no. 2	No data.	No data.	No data.
1330-20-7	Xylene (mixed isomers)	TWA: 220 mg/m3 (50 ppm) STEL: 441 mg/m3 (100 ppm)	TWA: 221 mg/m3 (50 ppm) STEL: 442 mg/m3 (100 ppm)	TWA: 221 mg/m3 STEL: 442 mg/m3
128-39-2	Butyl phenol, (2,6-Di-t-)	No data.	No data.	No data.
94-91-7	Phenol,2,2'-(1-methyl-1,2-ethanediyl)bi s(nitrilomethylidyne)bis-	No data.	No data.	No data.
100-41-4	Ethylbenzene	TWA: 441 mg/m3 (100 ppm) STEL: 552 mg/m3 (125 ppm)	TWA: 88.4 mg/m3 (20 ppm) STEL: 442 mg/m3 (100 ppm)	TWA: 442 mg/m3 STEL: 884 mg/m3
732-26-3	2,4,6-Tri-tert-butylphenol	No data.	No data.	No data.
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
<b>CAS #</b> 68476-30-2	Partial Chemical Name Fuel oil, no. 2	OSHA TWA No data.	ACGIH TWA TLV: 100 mg/m3	Other Limits No data.
68476-30-2	Fuel oil, no. 2	No data.	TLV: 100 mg/m3 TLV: 100 ppm	No data.
68476-30-2 1330-20-7	Fuel oil, no. 2 Xylene (mixed isomers)	No data. PEL: 100 ppm	TLV: 100 mg/m3 TLV: 100 ppm STEL: 150 ppm	No data. No data.
68476-30-2 1330-20-7 128-39-2	Fuel oil, no. 2  Xylene (mixed isomers)  Butyl phenol, (2,6-Di-t-)  Phenol,2,2'-(1-methyl-1,2-ethanediyl)bi	No data.  PEL: 100 ppm  No data.	TLV: 100 mg/m3 TLV: 100 ppm STEL: 150 ppm No data.	No data.  No data.

#### 8.2 Exposure Controls:

**8.2.1 Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne

(Ventilation etc.): concentrations of vapors below their respective threshold limit value.

8.2.2 Personal protection equipment:

**Eye Protection:** Safety goggles are minimum protection. Goggles with a face shield are required for

persons working closely with a potential for splashing.

**Protective Gloves:** Use chemical resistant, impervious gloves.

Other Protective Where contact is likely, wear chemical resistant gloves, a chemical resistant suit and boots. Additional body garments should be based upon the task being performed.

Respiratory Equipment Workers with high potential exposure must wear organic vapor respirators.

(Specify Type):



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# **Section 9. Physical and Chemical Properties**

9.1 Information on Basic Physical and Chemical Properties

> **Physical States:** [ ] Gas [X] Liquid [ ] Solid

Light red liquid with a slight petroleum odor. **Appearance and Odor:** 

No data. **Melting Point: Boiling Point:** No data.

66.00 C (150.8 F) Method Used: Pensky-Marten Closed Cup Flash Pt:

No data. **Evaporation Rate:** 

**Explosive Limits:** LEL: 0.6 UEL: 4.7 Vapor Pressure (vs. Air or < 2 MM\_HG at 20.0 C (68.0 F)

mm Hg):

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): ~ 0.851 at 75.0 F (23.9 C)

Density: 6.9875 LB/GA

Solubility in Water: No data.

~ 257.00 C (494.6 F) **Autoignition Pt:** 

water thin at 25.0 C (77.0 F) Viscosity:

9.2 Other Information

> 10.0 % by weight. Percent Volatile:

## Section 10. Stability and Reactivity

No data available. 10.1 Reactivity:

10.2 Stability: Unstable [ ] Stable [X]

No data available. 10.3 Conditions To Avoid -

**Hazardous Reactions:** 

Possibility of Will occur [ ] Will not occur [X]

**Hazardous Reactions:** 

High temperatures, sparks and open flames. 10.4 Conditions To Avoid -

Instability:

10.5 Incompatibility -Strong oxidizing and reducing agents.

Materials To Avoid:

10.6 Hazardous Carbon monoxide and carbon dioxides.

**Decomposition Or** 

**Byproducts:** 



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# **Section 11. Toxicological Information**

# 11.1 Information on Toxicological Effects:

No data available.

CAS# 68476-30-2:

Other Studies:, TDLo, Skin, Species: Rabbit, 100.0 ML/KG, 12 D.

Results:

Skin and Appendages: Skin: After systemic exposure: Dermatitis, irritative.

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Related to Chronic Data - death.

- "Toxicology of Petroleum Hydrocarbons, Proceedings of the Symposium, 1st, 1982," MacFarland, H.N., et al., eds., Washington, DC, American Petroleum Institute, 1983 Volume, Vol/p/yr: 1,1, 1983

Acute toxicity, LD50, Oral, Rat, 12.00 GM/KG.

Results:

Behavioral: Somnolence (general depressed activity).

- Advances in Modern Environmental Toxicology., Senate Press, Inc., P.O. Box 252, Princeton Junction, NJ 08550, Vol/p/yr: 6,1, 1984

Acute toxicity, LD (Lethal dose), Skin, Species: Rabbit, 5.000 GM/KG.

Results:

Behavioral: Tremor.

Behavioral: Convulsions or effect on seizure threshold.

- Advances in Modern Environmental Toxicology., Senate Press, Inc., P.O. Box 252, Princeton Junction, NJ 08550, Vol/p/yr: 6,1, 1984

Tumorigenic Effects:, TDLo, Skin, Mouse, 243.0 GM/KG, 97 W.

Results:

Tumorigenic: Carcinogenic by RTECS criteria.

Skin and Appendages: Other: Tumors.

- Fundamental and Applied Toxicology., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 9,297, 1987

Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H, Moderate.

Results:

Brain and Coverings: Changes in surface EEG.

- "Toxicology of Petroleum Hydrocarbons, Proceedings of the Symposium, 1st, 1982," MacFarland, H.N., et al., eds., Washington, DC, American Petroleum Institute, 1983 Volume, Vol/p/yr: 1,1, 1983

Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG, 30 S, Mild.

Results:

Behavioral: Somnolence (general depressed activity).

- "Toxicology of Petroleum Hydrocarbons, Proceedings of the Symposium, 1st, 1982," MacFarland, H.N., et al., eds., Washington, DC, American Petroleum Institute, 1983 Volume, Vol/p/yr: 1,1, 1983

Chronic Toxicological Effects:



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CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68476-30-2	Fuel oil, no. 2	n.a.	2B	A3	n.a.
1330-20-7	Xylene (mixed isomers)	n.a.	3	A4	n.a.
128-39-2	Butyl phenol, (2,6-Di-t-)	n.a.	n.a.	n.a.	n.a.
94-91-7	Phenol,2,2'-(1-methyl-1,2-ethanediyl)bis(nitrilomethylidyne) bis-	n.a.	n.a.	n.a.	n.a.
100-41-4	Ethylbenzene	n.a.	2B	A3	n.a.
732-26-3	2,4,6-Tri-tert-butylphenol	n.a.	n.a.	n.a.	n.a.

# **Section 12. Ecological Information**

## **Section 13. Disposal Considerations**

13.1 Waste Disposal Method:

Disposal should be made in accordance with federal, state and local regulations.

# **Section 14. Transport Information**

14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not-Restricted

DOT Hazard Class: UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not-Restricted

UN Number: Hazard Class:

14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not-Restricted

UN Number: Packing Group:

**Hazard Class:** 

Marine Pollutant: No

# **Section 15. Regulatory Information**

EPA SARA (Superrund Amendments and Reauthorization Act of	1 300) Lists
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CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
68476-30-2	Fuel oil, no. 2	No	No	No
1330-20-7	Xylene (mixed isomers)	No	Yes 100 LB	Yes
128-39-2	Butyl phenol, (2,6-Di-t-)	No	No	No
94-91-7	Phenol,2,2'-(1-methyl-1,2-ethanediyl)bis(nitrilome thylidyne)bis-	No	No	No
100-41-4	Ethylbenzene	No	Yes 1000 LB	Yes
732-26-3	2,4,6-Tri-tert-butylphenol	No	No	No

CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists

68476-30-2 Fuel oil, no. 2 CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA
PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI
CMB\_Bott 5: No; NC TAB: No; NJ EHS: No; NJ Bott 507: No

CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No;

PA HSL: No; SC TAP: No; WI Air: No



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1330-20-7	Xylene (mixed isomers)	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: CMR, Part 5; NC TAP: Yes; NJ EHS: Yes - 2014; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
128-39-2	Butyl phenol, (2,6-Di-t-)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory, 4 Test, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
94-91-7	Phenol,2,2'-(1-methyl-1,2-ethanediyl)bis(nitrilome thylidyne)bis-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
100-41-4	Ethylbenzene	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Inventory, 4 Test; CA PROP.65: Yes; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 0851; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
732-26-3	2,4,6-Tri-tert-butylphenol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory, 4 Test, 12(b); CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
CAS#	Hazardous Components (Chemical Name)	International Regulatory Lists
68476-30-2	Fuel oil, no. 2	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
1330-20-7	Xylene (mixed isomers)	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
128-39-2	Butyl phenol, (2,6-Di-t-)	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
94-91-7	Phenol,2,2'-(1-methyl-1,2-ethanediyl)bis(nitrilome thylidyne)bis-	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
100-41-4	Ethylbenzene	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes - 116-01
732-26-3		

#### **European Community Hazard Symbol codes:**

#### **European Community Risk and Safety Phrases:**

No data available.

# Section 16. Other Information

Yes

**Revision Date:** 05/12/2014

Additional Information About EPA Fuel Additive Registration No. 0053

**This Product:** 

**Company Policy or** 

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