

# D.T. 1

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/21/2016 Revision date: 12/23/2019 Supersedes: 03/25/2019 Version: 2.2

| .1. Identification  |   |
|---|---|
| Product form  | : Mixture   |
| Trade name  | : D.T. 1  |
| Product code  | : 34003   |
| Other means of identification   | : 34001-34003   |
| .2. Recommended use and restricti   | ions on use   |
| Use of the substance/mixture  | : Diesel additive   |
| .3. Supplier  |   |
| Bardahl Pro<br>1400 NW 52nd Street<br>Seattle, 98107 - USA<br>T 206-783-4851 - F 206-784-3219<br>www.bardahl.com<br>Contact:Jackie Leung  |   |
| 1.4. Emergency telephone number   |   |
| Emergency number  | : 800-424-9300  |
| SECTION 2: Hazard(s) identificati   | ion   |
| 2.1. Classification of the substance  |   |
| GHS-US classification   |   |
| Flammable liquids, Category 4   | Combustible liquid  |
| Germ cell mutagenicity, Category 1B   | May cause genetic defects.  |
| Carcinogenicity, Category 1B  | May cause cancer.   |
| Specific target organ toxicity - Repeated e   | exposure, May cause damage to organs through prolonged or repeated exposure.  |
|   |   |
| Category 2  |   |
| Category 2<br>Aspiration hazard, Category 1   | May be fatal if swallowed and enters airways.   |
| Category 2<br>Aspiration hazard, Category 1<br>Hazardous to the aquatic environment — A   | May be fatal if swallowed and enters airways.   |
| Category 2<br>Aspiration hazard, Category 1<br>Hazardous to the aquatic environment — A<br>Category 2   | May be fatal if swallowed and enters airways.<br>Acute Hazard, Toxic to aquatic life  |
| Category 2<br>Aspiration hazard, Category 1<br>Hazardous to the aquatic environment — A<br>Category 2<br>Hazardous to the aquatic environment — C   | May be fatal if swallowed and enters airways.<br>Acute Hazard, Toxic to aquatic life  |
| Category 2<br>Aspiration hazard, Category 1<br>Hazardous to the aquatic environment — A<br>Category 2<br>Hazardous to the aquatic environment — C<br>Hazard, Category 2   | May be fatal if swallowed and enters airways.<br>Acute Hazard, Toxic to aquatic life<br>Chronic Toxic to aquatic life with long lasting effects.  |
| Category 2<br>Aspiration hazard, Category 1<br>Hazardous to the aquatic environment — A<br>Category 2<br>Hazardous to the aquatic environment — C<br>Hazard, Category 2<br>.2. GHS Label elements, including (  | May be fatal if swallowed and enters airways.<br>Acute Hazard, Toxic to aquatic life<br>Chronic Toxic to aquatic life with long lasting effects.  |
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Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

# 2.3. Other hazards which do not result in classification

# No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

# SECTION 3: Composition/information on ingredients

# 3.1. Substances

### Not applicable

3.2. Mixtures

| Name                                     | Product identifier   | %       | GHS-US classification  |
|--|----------------------|---------|--|
| Petroleum distillates                    | (CAS-No.) 68476-34-6 | >= 80   | Flam. Liq. 4, H227<br>Carc. 2, H351<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| Solvent naphtha (petroleum), heavy arom. | (CAS-No.) 64742-94-5 | 1 - 5   | Asp. Tox. 1, H304  |
| Solvent naphtha (light aromatic)         | (CAS-No.) 64742-95-6 | 0.1 - 5 | Flam. Liq. 2, H225<br>Muta. 1B, H340<br>Carc. 1B, H350<br>Asp. Tox. 1, H304<br>Aquatic Acute 3, H402   |
| Naphthalene                              | (CAS-No.) 91-20-3    | 0.1 - 1 | Acute Tox. 4 (Oral), H302<br>Carc. 2, H351<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410         |

Full text of hazard classes and H-statements : see section 16

| SECTION 4: First-aid measures             |  |
|---|--|
| 4.1. Description of first aid measures    |  |
| First-aid measures general                | : Call a physician immediately.  |
| First-aid measures after inhalation       | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact     | : Wash skin with plenty of water.  |
| First-aid measures after eye contact      | : Rinse eyes with water as a precaution.   |
| First-aid measures after ingestion        | : Do not induce vomiting. Call a physician immediately.  |
| 4.2. Most important symptoms and effect   | ts (acute and delayed)   |
| Symptoms/effects after ingestion          | : Risk of lung oedema.   |
| 4.3. Immediate medical attention and spe  | ecial treatment, if necessary  |
| Treat symptomatically.                    |  |
| SECTION 5: Fire-fighting measures         |  |
| 5.1. Suitable (and unsuitable) extinguish | ing media  |
| Suitable extinguishing media              | : Water spray. Dry powder. Foam. Carbon dioxide.   |
| 5.2. Specific hazards arising from the ch | emical   |
| Fire hazard                               | : Combustible liquid.  |
| 5.3. Special protective equipment and pr  | recautions for fire-fighters   |
| Protection during firefighting            | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                       |
| <b>SECTION 6: Accidental release meas</b> | sures  |
| 6.1. Personal precautions, protective equ | uipment and emergency procedures   |
| 6.1.1. For non-emergency personnel        |  |
| Emergency procedures                      | : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe mist, vapours. |

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| 6.1.2.    | For emergency responders               |      |  |
|-----------|--|------|--|
| Protec    | tive equipment                         | :    | Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  |
| 6.2.      | Environmental precautions              |      |  |
| Avoid re  | lease to the environment.              |      |  |
| 6.3.      | Methods and material for containmer    | nt a | nd cleaning up   |
| For co    | ntainment                              | :    | Collect spillage.  |
| Metho     | ds for cleaning up                     | :    | Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  |
| Other     | information                            | :    | Dispose of materials or solid residues at an authorized site.  |
| 6.4.      | Reference to other sections            |      |  |
| For furth | ner information refer to section 13.   |      |  |
| SECT      | ON 7: Handling and storage             |      |  |
| 7.1.      | Precautions for safe handling          |      |  |
| Precau    | utions for safe handling               | :    | Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe mist, vapours. |
| Hygier    | ne measures                            | :    | Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.  |
| 7.2.      | Conditions for safe storage, including | g a  | ny incompatibilities   |
| Storag    | e conditions                           | :    | Store in a well-ventilated place. Keep cool. Store locked up.  |
| SECT      | ON 8: Exposure controls/perso          | na   | Il protection  |
| 81        | Control parameters                     |      |  |

| .1. Control parameters                                |                      |  |
|---|----------------------|--|
| D.T. 1  |                      |  |
| No additional information available                   |                      |  |
| Solvent naphtha (petroleum), heavy arom. (64742-94-5) |                      |  |
| No additional information available                   |                      |  |
| Naphthalene (91-20-3)                                 |                      |  |
| USA - ACGIH - Occupational Exposure Limits            |                      |  |
| ACGIH TWA (ppm)                                       | 10 ppm               |  |
| Petroleum distillates (68476-34-6)                    |                      |  |
| USA - ACGIH - Occupational Exposure Limits            |                      |  |
| Local name  | Diesel fuel as total |  |
| ACGIH TWA (mg/m <sup>3</sup> )                        | 100 mg/m³            |  |
| Solvent naphtha (light aromatic) (64742-95-6)         |                      |  |
| No additional information available                   |                      |  |

| 8.2. | Appropriate engineering controls |
|------|----------------------------------|
|      | appropriate engineering centrele |

- Appropriate engineering controls Environmental exposure controls
- : Ensure good ventilation of the work station.: Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

Hand protection:

- Protective gloves
- Eye protection:
- Safety glasses

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# Skin and body protection:

Wear suitable protective clothing

# **Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection.

# SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical and che | nical properties           |
|--|----------------------------|
| Physical state                             | : Liquid                   |
| Colour                                     | : amber                    |
| Odour                                      | : characteristic           |
| Odour threshold                            | : No data available        |
| рН   | : No data available        |
| Melting point                              | : Not applicable           |
| Freezing point                             | : No data available        |
| Boiling point                              | : No data available        |
| Flash point                                | : 62.2 °C PMCC typical     |
| Relative evaporation rate (butylacetate=1) | : No data available        |
| Flammability (solid, gas)                  | : Not applicable.          |
| Vapour pressure                            | : No data available        |
| Relative vapour density at 20 °C           | : No data available        |
| Relative density                           | : No data available        |
| Density                                    | : 0.845 g/cm³ typical      |
| Solubility                                 | : No data available        |
| Log Pow                                    | : No data available        |
| Auto-ignition temperature                  | : No data available        |
| Decomposition temperature                  | : No data available        |
| Viscosity, kinematic                       | : 3.6 mm²/s @ 40 C typical |
| Viscosity, dynamic                         | : No data available        |
| Explosive limits                           | : No data available        |
| Explosive properties                       | : No data available        |
| Oxidising properties                       | : No data available        |
| 9.2 Other information                      |                            |

# 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# 10.2. Chemical stability Stable under normal conditions. Image: Condition Stable under normal conditions Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

# 10.5. Incompatible materials

No additional information available

# **10.6.** Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

| 11.1. Information on toxicological effects |
|--|
|--|

| Acute tox | icity (oral) |
|-----------|--------------|
|-----------|--------------|

12/23/2019

EN (English)

: Not classified

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| Acute toxicity (dermal)                  | : Not classified   |
|--|--|
| Acute toxicity (inhalation)              | : Not classified   |
| Naphthalene (91-20-3)                    |  |
| LD50 dermal rat                          | > 2500 mg/kg (Rat, Dermal)   |
| ATE US (oral)                            | 533 mg/kg bodyweight   |
| Petroleum distillates (68476-34-6)       |  |
| LD50 oral rat                            | > 5000 mg/kg (Rat, Oral)   |
| LD50 dermal rabbit                       | > 2000 mg/kg (Rabbit, Dermal)  |
| LC50 inhalation rat (mg/l)               | > 5 mg/l (4 h, Rat, Inhalation)                                      |
| Solvent naphtha (light aromatic) (64742- | 95-6)  |
| LD50 oral rat                            | > 2000 mg/kg (Rat, Oral)   |
| LD50 dermal rabbit                       | > 3160 mg/kg (Rabbit, Dermal)  |
| Skin corrosion/irritation                | : Not classified   |
| Serious eye damage/irritation            | : Not classified   |
| Respiratory or skin sensitisation        | : Not classified   |
| Germ cell mutagenicity                   | : May cause genetic defects.   |
| Carcinogenicity                          | : May cause cancer.  |
| Reproductive toxicity                    | : Not classified   |
| STOT-single exposure                     | : Not classified   |
| STOT-repeated exposure                   | : May cause damage to organs through prolonged or repeated exposure. |
| Petroleum distillates (68476-34-6)       |  |
| STOT-repeated exposure                   | May cause damage to organs through prolonged or repeated exposure.   |
| Aspiration hazard                        | : May be fatal if swallowed and enters airways.                      |
| Viscosity, kinematic                     | : 3.6 mm²/s @ 40 C typical   |
| Symptoms/effects after ingestion         | : Risk of lung oedema.   |

| <b>SECTION 12: Ecological info</b> | ormation  |
|------------------------------------|---|
| 12.1. Toxicity                     |   |
| Ecology - general                  | : Toxic to aquatic life with long lasting effects. Toxic to aquatic life. |
| Naphthalene (91-20-3)              |   |
| LC50 fish 1                        | 0.11 mg/l (96 h, Oncorhynchus mykiss, Literature study)                   |
| EC50 Daphnia 1                     | 2.16 mg/l (48 h, Daphnia magna, Literature study)                         |
| Solvent naphtha (light aromatic)   | (64742-95-6)  |
| LC50 fish 1                        | 18 mg/l (Pisces)  |
| EC50 Daphnia 1                     | 21 mg/l (Daphnia sp.)   |

# 12.2. Persistence and degradability

| Solvent naphtha (petroleum), heavy arom. (64742-94-5) |  |  |
|---|--|--|
| Persistence and degradability                         | Not readily biodegradable in water.                        |  |
| Naphthalene (91-20-3)                                 |  |  |
| Persistence and degradability                         | Biodegradable in the soil. Readily biodegradable in water. |  |
| Biochemical oxygen demand (BOD)                       | 0 g O <sub>2</sub> /g substance                            |  |
| Chemical oxygen demand (COD)                          | $0.22 \text{ g O}_2/\text{g substance}$                    |  |
| ThOD  | 2.99 g O <sub>2</sub> /g substance                         |  |
| Petroleum distillates (68476-34-6)                    |  |  |
| Persistence and degradability                         | Inherently biodegradable.                                  |  |

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| Readily biodegradable in water.                         |  |  |
|---|--|--|
|   |  |  |
|   |  |  |
| 1742-94-5)  |  |  |
| 2.9 - 6.1   |  |  |
| Bioaccumable.   |  |  |
|   |  |  |
| 23 - 168 (8 week(s), Cyprinus carpio, Literature study) |  |  |
| 3.3 (Experimental value)                                |  |  |
| Low potential for bioaccumulation (BCF < 500).          |  |  |
| Petroleum distillates (68476-34-6)                      |  |  |
| 3.9 - 6   |  |  |
| Solvent naphtha (light aromatic) (64742-95-6)           |  |  |
| 2.1 - 6   |  |  |
|   |  |  |
|   |  |  |

# Naphthalene (91-20-3) Surface tension 0.03 N/m (100 °C) Ecology - soil Adsorbs into the soil. Petroleum distillates (68476-34-6) Surface tension 0.025 N/m Ecology - soil No (test)data on mobility of the components available.

# 12.5. Other adverse effects

No additional information available

| SECTION 13: Disposal considerati      | ons   |
|---------------------------------------|---|
| 3.1. Disposal methods                 |   |
| Waste treatment methods               | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                   |
| ECTION 14: Transport informatio       | n   |
| Department of Transportation (DOT)    |   |
| In accordance with DOT                |   |
| Not applicable                        |   |
| Transportation of Dangerous Goods     |   |
| Transport by sea                      |   |
| Transport document description (IMDG) | : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PETROLEUM DISTILLATES), 9, III, MARINE POLLUTANT |
| UN-No. (IMDG)                         | : 3082  |
| Proper Shipping Name (IMDG)           | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.   |
| Class (IMDG)                          | : 9 - Miscellaneous dangerous substances and articles   |
| Packing group (IMDG)                  | : III - substances presenting low danger  |
| Limited quantities (IMDG)             | : 5L  |
| Marine pollutant                      | : Yes   |
|                                       | ¥2  |
| 12/23/2019                            | EN (English) 6/7  |

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Air transport

# SECTION 15: Regulatory information

# 15.1. US Federal regulations

# D.T. 1

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

# Solvent naphtha (petroleum), heavy arom. (64742-94-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Petroleum distillates (68476-34-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Solvent naphtha (light aromatic) (64742-95-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 15.2. International regulations

# CANADA

# **EU-Regulations**

### National regulations No additional information available

15.3. US State regulations

# **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Revision date       | : 12/23/2019   |
|---------------------|--|
| NFPA health hazard  | : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.   |
| NFPA fire hazard    | : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.   |
| NFPA reactivity     | : 0 - Material that in themselves are normally stable, even under fire conditions.   |
| Hazard Rating       |  |
| Health              | : 2 Moderate Hazard - Temporary or minor injury may occur  |
| Flammability        | <ul> <li>2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient<br/>temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F<br/>but below 200 F. (Classes II &amp; IIIA)</li> </ul> |
| Physical            | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.  |
| Personal protection | : B  |
|                     | B - Safety glasses, Gloves   |

# SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.