

DIESEL FUEL, NO. 2
MSDS No. 11155000

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15.0 REGULATORY INFORMATION

CERCLA SECTIONS 102A/103 HAZARDOUS SUBSTANCES (40 CFR PART 302.4): This product is exempt from the CERCLA reporting requirements under 40 CFR Part 302.4. However, if spilled into waters of the United States, it may be reportable under 33 CFR Part 153 if it produces a sheen.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR PART 355): This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIZATION (40 CFR PART 370): This product is defined as hazardous by OSHA under 29 CFR Part 1910.1200(d). Hazardous categories for this product are: Acute = yes; Chronic = yes; Fire = yes; Pressure = no; Reactive = no.

SARA TITLE III SECTION 313 (40 CFR PART 372): This product contains the following substance(s), which is on the Toxic Chemicals List in 40 CFR Part 372:

| Component/CAS Number | Weight Percent |
|--------------------------|----------------|
| Trimethylbenzene 95-63-6 | 1.1 |
| Xylene 1330-20-7 | 1 |

U.S. INVENTORY (TSCA): Listed on inventory.

OSHA HAZARD COMMUNICATION STANDARD: Combustible liquid. Irritant.

WHMIS CONTROLLED PRODUCT CLASSIFICATION: B3, D2A, D2B.

EC INVENTORY (EINECS/ELINCS): One or more components not listed on inventory.

JAPAN INVENTORY (MITI): One or more components not listed on inventory.

AUSTRALIA INVENTORY (AICS): One or more components not listed on the inventory.

KOREA INVENTORY (ECL): One or more components not listed on inventory.

CANADA INVENTORY (DSL): One or more of the components of this product is not listed on the DSL.

PHILIPPINE INVENTORY (PICCS): One or more components not listed on the inventory.

16.0 OTHER INFORMATION

Covers all Amoco No. 2 diesel fuels, including low sulfur, low sulfur dyed and high sulfur brands.

Prepared by:

Environment, Health and Safety Department

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This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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NIOSH has recommended that whole diesel exhaust be regarded as a potential occupational carcinogen, based on findings of carcinogenic responses in laboratory animals exposed to whole diesel exhaust. The excess cancer risk for workers exposed to diesel exhaust has not been calculated; however, exposure should be minimized to reduce potential risk.

No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, the U.S. Occupational Safety and Health Act, or the International Agency on Research on Cancer (IARC).

12.0 ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this material by BP Amoco.

13.0 DISPOSAL INFORMATION

Disposal must be in accordance with applicable federal, state, or local regulations. Enclosed-controlled incineration is recommended unless directed otherwise by applicable ordinances.

The container for this product can present explosion or fire hazards, even when emptied! To avoid risk of injury, do not cut, puncture, or weld on or near this container. Since the emptied containers retain product residue, follow label warnings even after container is emptied.

14.0 TRANSPORTATION INFORMATION

U.S. DEPT OF TRANSPORTATION

| | | |
|-----------------------|---|---------------------|
| Shipping Name | : | Diesel Fuel |
| Hazard Class | : | Combustible liquid. |
| Identification Number | : | NA1993 |
| Packing Group | : | III |

INTERNATIONAL INFORMATION:

Sea (IMO/IMDG)

| | | |
|---------------|---|-------------|
| Shipping Name | : | Diesel Fuel |
| Class | : | 3.3 |
| Packing Group | : | III |
| UN Number | : | UN1202 |

Air (ICAO/IATA)

| | | |
|---------------|---|---------------------|
| Shipping Name | : | Diesel Fuel, UN1202 |
| Class | : | 3 |
| Packing Group | : | III |

European Road/Rail (ADR/RID)

| | | |
|---------------|---|-----------------|
| Shipping Name | : | Not determined. |
|---------------|---|-----------------|

Canadian Transportation of Dangerous Goods

| | | |
|---------------|---|----------|
| Shipping Name | : | Fuel Oil |
| Hazard Class | : | 3 |
| UN Number | : | UN1202 |
| Packing Group | : | III |

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE: None required; however, use of eye protection is good industrial practice.

SKIN: Avoid prolonged or repeated skin contact. Wear protective clothing and gloves if prolonged or repeated contact is likely.

INHALATION: Use with adequate ventilation. If ventilation is inadequate, use NIOSH certified respirator that will protect against organic vapor and dust/mist.

ENGINEERING CONTROLS: Control airborne concentrations below the exposure guidelines.

EXPOSURE GUIDELINES:

| <u>Component</u> | <u>CAS#</u> | <u>Exposure Limits</u> |
|----------------------|-------------|--|
| Petroleum distillate | 68476-30-2 | No exposure limit established |
| Xylene | 1330-20-7 | OSHA PEL: 100 ppm (1989)(1971) OSHA STEL: 150 ppm (1989); Not established. (1971) ACGIH TLV-TWA: 100 ppm ACGIH TLV-STEL: 150 ppm Mexico TWA: 100 ppm (skin) Mexico STEL: 150 ppm (skin) |
| Trimethylbenzene | 95-83-8 | OSHA PEL: 25 ppm (1989); Not established. (1971) ACGIH TLV-TWA: 25 ppm Mexico TWA: 25 ppm Mexico STEL: 35 ppm |
| Nonane | 111-84-2 | OSHA PEL: 200 ppm (1989); Not established. (1971) ACGIH TLV-TWA: 200 ppm Mexico TWA: 200 ppm Mexico STEL: 250 ppm |

9.0 CHEMICAL AND PHYSICAL PROPERTIES

| | |
|-------------------------------|---------------------------------------|
| APPEARANCE AND ODOR: | Liquid. Clear or red. Petroleum odor. |
| pH: | Not determined. |
| VAPOR PRESSURE: | Not determined. |
| VAPOR DENSITY: | Not determined. |
| BOILING POINT: | 340-375°F (approximate range) |
| MELTING POINT: | Not determined. |
| SOLUBILITY IN WATER: | Negligible, below 0.1%. |
| SPECIFIC GRAVITY (WATER = 1): | 0.85 to 0.88 |
| VISCOSITY: | 1.8-3.8cSt at 100°F |

10.0 STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Keep away from ignition sources (e.g. heat, sparks, and open flames).

MATERIALS TO AVOID: Avoid chlorine, fluorine, and other strong oxidizers.

HAZARDOUS DECOMPOSITION: None identified.

HAZARDOUS POLYMERIZATION: Will not occur.

11.0 TOXICOLOGICAL INFORMATION**ACUTE TOXICITY DATA:**

EYE IRRITATION: Testing not conducted. See Other Toxicity Data.

SKIN IRRITATION: Testing not conducted. See Other Toxicity Data.

DERMAL LD50: Testing not conducted. See Other Toxicity Data.

ORAL LD50: Testing not conducted. See Other Toxicity Data.

INHALATION LC50: Testing not conducted. See Other Toxicity Data.

OTHER TOXICITY DATA:

Similar products have produced maximum eye irritation scores ranging from 0.33 to 1.0/110.0; 24 hours (rabbits). Similar products have produced primary skin irritation scores ranging from 0.67 to 3.83/8.0 (rabbits). Dermal LD50 for similar products was greater than 2g/kg; practically nontoxic for acute exposures by this route. For a similar product oral LD50 was greater than 5g/kg; practically non-toxic for acute exposures by this route.

Middle distillate: From skin-painting studies of petroleum distillates of similar composition and distillate range, it has been shown that these types of materials often possess weak carcinogenic activity in laboratory animals. In these tests, the material is painted on the shaved backs of mice twice a week for their lifetime. The material is not washed off between applications. Therefore, there may be a potential risk of skin cancer from prolonged or repeated skin contact with this product in the absence of good personal hygiene. This particular product has not been tested for carcinogenic activity, but we have chosen to be cautious in light of the findings with other distillate streams.

Occasional skin contact with this product is not expected to have serious effects, but good personal hygiene should be practiced and repeated skin contact avoided. This product can also be expected to produce skin irritation upon prolonged or repeated skin contact. Personal hygiene measures taken to prevent skin irritation are expected to be adequate to prevent risk of skin cancer.

Materials of this type have been shown to produce kidney damage in male rats following prolonged inhalation exposures. Following extensive research, this effect appears to be unique to the male rat and is considered to be of little or no relevance in terms of human health risk.

This product has a sufficiently low vapor pressure to prevent a hazardous buildup of vapors unless the product is heated, used in a confined space with inadequate ventilation or misted. Inhalation of mist or high concentrations of vapors can produce dizziness, headache, nausea, unconsciousness and death, and possibly cause irritation of the eye, nose and throat.

Ingestion of this material can cause gastrointestinal irritation and diarrhea. Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Do not siphon by mouth.

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Covers all Amoco No.2 diesel fuels, including low sulfur, low sulfur dyed and high sulfur brands.

DIESEL FUEL, NO. 2

MATERIAL SAFETY DATA SHEET

MSDS No. 11155000
ENGLISH

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DIESEL FUEL, NO. 2

MANUFACTURER/SUPPLIER:
Amoco Oil Company
200 East Randolph Drive
Chicago, Illinois 60601 U.S.A.

EMERGENCY HEALTH INFORMATION:
1 (800) 447-8735
EMERGENCY SPILL INFORMATION:
1 (800) 424-9300 CHEMTREC (USA)
OTHER PRODUCT SAFETY INFORMATION:
(630) 838-5441

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS# | Range % by Wt. |
|----------------------|------------|----------------|
| Petroleum distillate | 68476-30-2 | 95-100 |
| Xylene | 1330-20-7 | 0-1 |
| Trimethylbenzene | 95-63-6 | 0-1.1 |
| Nonane | 111-84-2 | 0-1.1 |

(See Section 8.0, "Exposure Controls/Personal Protection", for exposure guidelines)

3.0 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Warning! Combustible. Harmful or fatal if liquid is aspirated into lungs. Causes skin irritation on prolonged or repeated contact.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: No significant health hazards identified.

SKIN CONTACT: Causes skin irritation on prolonged or repeated contact. See "Toxicological Information" section (Section 11.0).

INHALATION: No significant health hazards identified for the liquid fuel. See "Toxicological Information" section (Section 11.0).

INGESTION: Harmful or fatal if liquid is aspirated into lungs. Ingestion causes gastrointestinal irritation and diarrhea. See "Toxicological Information" section (Section 11.0).

HMIS CODE: (Health:0) (Flammability:2) (Reactivity:0)

NFPA CODE: (Health:0) (Flammability:2) (Instability:0)

4.0 FIRST AID MEASURES

EYE: Flush eyes with plenty of water.

SKIN: Wash exposed skin with soap and water. Remove contaminated clothing, including shoes, and thoroughly clean and dry before reuse.

INHALATION: If adverse effects occur, remove to uncontaminated area. Get medical attention.

INGESTION: If swallowed, do NOT induce vomiting. Get immediate medical attention.

5.0 FIRE FIGHTING MEASURES

FLASHPOINT: 120-180°F (Tag closed cup)

UEL: 7.5%

LEL: 0.6%

AUTOIGNITION TEMPERATURE: Not determined.

FLAMMABILITY CLASSIFICATION: Combustible Liquid.

EXTINGUISHING MEDIA: Agents approved for Class B hazards (e.g., dry chemical, carbon dioxide, foam, steam) or water fog. Water may be ineffective but should be used to cool fire exposed containers, structures and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid.

FIRE-FIGHTING EQUIPMENT: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

PRECAUTIONS: Keep away from sources of ignition (e.g., heat and open flames). Use with adequate ventilation.

HAZARDOUS COMBUSTION PRODUCTS: Combustion of this product in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., carbon monoxide, carbon dioxide) and inadequate oxygen levels.

6.0 ACCIDENTAL RELEASE MEASURES

Remove or shut off all sources of ignition. Prevent spreading by diking, ditching, or absorbing on inert materials. Keep out of sewers and waterways.

7.0 HANDLING AND STORAGE

HANDLING: Use with adequate ventilation. Keep away from ignition sources (e.g., heat, sparks, or open flames). Ground and bond containers when transferring materials. Wash thoroughly after handling.

STORAGE: Store in combustible liquids storage area. Store away from heat, ignition sources, and open flame in accordance with applicable regulations.

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