

SAFETY DATA SHEET

Section 1. Identification

1-800-424-9300 CHS Inc. Transportation Emergency (CHEMTREC) 1-651-355-8443

P.O. Box 64089 **Technical Information**

Mail station 525 SDS Information 1-651-355-8445 St. Paul, MN 55164-0089

No. 2 ULTRA LOW SULFUR DIESEL FUEL / DISTILLATE SDS no. 0201-M1A0.3 Product name (sulfur<15ppm)

Revision date 11/15/2013 #2 Diesel Fuel, #2 Distillate, Fuel Oil Fieldmaster XL Diesel Fuel, Common name

Roadmaster XL Diesel Fuel

Chemical formula Mixture Chemical name Petroleum Distillate

Chemical family : A mixture of paraffinic, olefinic, naphthenic and aromatic

hydrocarbons.

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

Not available.

Section 2. Hazards identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). OSHA/HCS status

Classification of the substance or FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2 mixture

AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

GHS label elements

Hazard pictograms





Signal word : Warning

Flammable liquid and vapor. Hazard statements Suspected of causing cancer.

Harmful to aquatic life with long lasting effects.

Precautionary statements

Chemical name

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or General

label at hand.

Petroleum Distillate

Physical hazards: 0 Hazardous Material Information System (U.S.A.) Health: Flammability:

Instability: 0 National Fire Protection Association (U.S.A.) Flammability: Health:

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

#2 Diesel Fuel, #2 Distillate, Fuel Oil Fieldmaster XL Diesel Fuel, Roadmaster XL Diesel Fuel Other means of identification

CAS number Ingredient name 68476-34-6 Fuels, diesel, No 2 60 - 10092-52-4 0.1 - 1Biphenyl 91-20-3 0.1 - 1Naphthalene

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are assified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15

minutes, occasionally lifting the lower and upper lids. Get medical attention.

Inhalation If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as

possible.

Skin contact If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the

material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If

irritation persists after washing, get medical attention immediately.

Ingestion If material has been swallowed, do not induce vomiting. Get medical attention immediately,

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eve contact : No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eve contact Adverse symptoms may include the following: pain or irritation, watering, redness. Inhalation Adverse symptoms may include the following: respiratory tract irritation, coughing.

carbon monoxide

Skin contact Adverse symptoms may include the following: irritation, redness.

Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested

or inhaled.

Specific treatments No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the

person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or

Unsuitable extinguishing media

Specific hazards arising from the chemical

water spray (fog) to extinguish fire. Do not use water jet or water-based fire extinguishers.

Hazardous thermal decomposition products

Vapors are heavier than air and may travel along the ground to a source of ignition (pilot light, heater, electric motor) some distance away. Containers, drums (even empty) can explode when heat (welding, cutting, etc.) is applied.

Decomposition products may include the following materials: carbon dioxide

Special protective actions for fire-fighters

Water may be ineffective on flames, but should be used to keep fire-exposed containers cool. Water or foam sprayed into container of hot burning product could cause frothing and endanger fire fighters. Large fires, such as tank fires, should be fought with caution. If possible, pump the contents from the tank and keep adjoining structures cool with water. Avoid spreading burning liquid with water used for cooling purposes. Do not flush down public sewers. Avoid inhalation of vapors. Firefighters should wear self-contained breathing apparatus.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Spill

Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil.

Section 7. Handling and storage

recautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage, including any incompatibilities

: Do not store above the following temperature: 113°C (235.4°F). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Fuels, diesel, No 2	ACGIH TLV (United States, 3/2012). Absorbed through skin. TWA: 100 mg/m³, (measured as total hydrocarbons) 8 hours. Form:
	Inhalable fraction and vapor
Biphenyl	ACGIH TLV (United States, 3/2012).
	TWA: 1.3 mg/m³ 8 hours.
	TWA: 0.2 ppm 8 hours.
	NIOSH REL (United States, 6/2009).
	TWA: 1 mg/m³ 10 hours.
	TWA: 0.2 ppm 10 hours.
	OSHA PEL (United States, 6/2010).
	TWA: 1 mg/m³ 8 hours.
	TWA: 0.2 ppm 8 hours.
Naphthalene	ACGIH TLV (United States, 3/2012). Absorbed through skin.
	STEL: 79 mg/m³ 15 minutes.
	STEL: 15 ppm 15 minutes.
	TWA: 52 mg/m³ 8 hours.
	TWA: 10 ppm 8 hours.
	NIOSH REL (United States, 1/2013).
	STEL: 75 mg/m³ 15 minutes.
	STEL: 15 ppm 15 minutes.
	TWA: 50 mg/m³ 10 hours.
	TWA: 10 ppm 10 hours.
	OSHA PEL (United States, 6/2010).
	TWA: 50 mg/m³ 8 hours.
	TWA: 10 ppm 8 hours.

Appropriate engineering controls

: Use only with adequate ventilation.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyelface protection Skin protection

: Recommended: Splash goggles and a face shield, where splash hazard exists.

Hand protection Body protection : 4 - 8 hours (breakthrough time): Nitrile gloves.

Other skin protection
Respiratory protection

Recommended: Long sleeved coveralls.

Recommended: Impervious boots.

: If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.

3/6

Section 9. Physical and chemical properties

Appearance

Physical state

: Liquid. [Clear.]

Color

: Yellow to red.

Odor

Mild hydrocarbon.

Not available. Not available.

Melting point Boiling point

Odor threshold

Not available.

Flash point

: 153.88 to 371.11°C (309 to 700°F)

Closed cup: >52°C (>125.6°F) [Pensky-Martens.]

Not available.

Flammability

Lower and upper

explosive (flammable) limits

Lower: 0.6% Upper: 7.5% Relative density

: 0.84 to 0.9 **Evaporation rate** Slower.

Solubility

Insoluble in the following materials: cold water

and hot water.

: >256.66°C (>494°F)

: Not available.

: Not available.

Solubility in water

: Insoluble

Partition coefficient; n-

octanol/water

Auto-ignition temperature

Decomposition

temperature

: Not available.

SADT

Viscosity Vapor pressure : Not available.

<0.35 kPa (<2.6 mm Hg) (122°F)

Vapor density

: >4 [Air = 1]

Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials

Reactive or incompatible with the following materials: Strong oxidizing agents.

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Biphenyl Naphthalene	LD50 Dermal LD50 Oral LD50 Dermal LD50 Oral	Rabbit Rat Rabbit Rat	>5010 mg/kg 2140 mg/kg >20 g/kg 490 mg/kg	-
legitation (Causasian)				i

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Biphenyl Naphthalene	Eyes - Mild irritant Skin - Severe irritant Skin - Mild irritant Skin - Severe irritant	Rabbit Rabbit Rabbit Rabbit	-	100 mg 24 hours 500 µL 495 mg 24 hours 0.05 mL	- - -

<u>Sensitization</u>

Skin

: There is no data available. There is no data available.

Respiratory <u>Mutagenicity</u>

There is no data available.

Carcinogenicity

There is no data available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Biphenyl	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation, Ingestion.

Section 12. Ecological information

Toxicity Exposure Product/ingredient name Result Species 48 hours Daphnia - Daphnia magna - Neonate Biphenyl Acute LC50 0.36 mg/L Fresh water 96 hours Fish - Oncorhynchus mykiss Acute LC50 1.5 mg/L Fresh water Daphnia - Daphnia magna - Neonate 21 days Chronic NOEC 0.17 mg/L Fresh water 87 days Fish - Oncorhynchus mykiss Chronic NOEC 0.229 mg/L Fresh water 48 hours Daphnia - Daphnia magna - Neonate Acute EC50 1600 µg/l Fresh water Naphthalene Acute LC50 2350 µg/l Marine water Crustaceans - Palaemonetes pugio 48 hours Fish - Melanotaenia fluviatilis - Larvae 96 hours Acute LC50 213 µg/l Fresh water

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Fuels, diesel, No 2	>3.3	-	low
Biphenyl	4.008	1900	high
Naphthalene	3.4	36.5 to 168	low

Mobility in soil

Soil/water partition coefficient (Koc)

: There is no data available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

DOT IDENTIFICATION NUMBER NA1993

DOT proper shipping name

COMBUSTIBLE LIQUID, N.O.S. (Fuels, diesel, No 2) RQ

(Biphenyl)

DOT Hazard Class(es)

Combustible liquid.

PG III

DOT EMER, RESPONSE GUIDE NO. 128

Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) PAIR: Biphenyl; Naphthalene

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Naphthalene Clean Water Act (CWA) 311: Xylene; Naphthalene

Clean Air Act Section 602 Class I Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

: Not listed

Clean Air Act Section 602 Class II Substances

: Not listed

DEA List II Chemicals (Essential Chemicals)

: Not listed

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

: Fire hazard

Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Fuels, diesel, No 2	60 - 100	Yes.	No.	No.	No.	Yes.
Biphenyl	0.1 - 1	No.	No.	No.	Yes.	No.
Naphthalene	0.1 - 1	No.	No.	No.	Yes.	Yes.

SARA 313

: This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%	\neg
Naphthalene	91-20-3	0.1 - 1	\dashv

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts

: None of the components are listed.

New York

The following components are listed: Naphthalene

New Jersey

The following components are listed: Naphthalene The following components are listed: Naphthalene

Pennsylvania California Prop. 65

: WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	-	Maximum acceptable dosage level
Naphthalene	Yes.	No.	Yes.	No.

Section 16. Other information

Revision date

: 11/15/2013

Supersedes

: 03/08/2011

Revised Section(s)

: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

Prepared by

KMK Regulatory Services Inc.

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