

SAFETY DATA SHEET

Section 1. Identification

CHS Inc. Transportation Emergency (CHEMTREC) : 1-800-424-9300

P.O. Box 64089 Technical Information 1-651-355-8443 Mail station 525

St. Paul, MN 55164-0089 SDS Information : 1-651-355-8445

Product name : No. 1 DIESEL FUEL SDS no. : 0143-M2A0.HL

Common name : No. 1 Distillate Fuel, No. 1 High Sulfur Diesel (Dyed), No. 1 Low

Sulfur Diesel (Dyed), No. 1 Ultra Low Sulfur Diesel (Dyed/Undyed)

Chemical name : Petroleum Distillate Chemical formula : mixture

Chemical family : A mixture of Paraffinic, Olefinic, Naphthenic, and Aromatic

Hydrocarbon.

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

Not available.

Section 2. Hazards identification

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

Classification of the substance or

mixture

FLAMMABLE LIQUIDS - Category 3

Revision date

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms









Signal word : Danger

Hazard statements : H226 - Flammable liquid and vapor.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H351 - Suspected of causing cancer.

H304 - May be fatal if swallowed and enters airways. H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

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

label at hand.

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the

environment. Wash hands thoroughly after handling.

Response : Collect spillage. IF exposed or concerned: Get medical attention. IF SWALLOWED: Immediately call a

POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

06/01/2021

Hazardous Material Information System (U.S.A.)

Health:

* 3 Flammability:

2 Physical hazards: 0

National Fire Protection Association (U.S.A.)

Health:

2 Flammability:

2 Instability: 0

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Chemical name : Petroleum Distillate

Other means of identification : No. 1 Distillate Fuel, No. 1 High Sulfur Diesel (Dyed), No. 1 Low Sulfur Diesel (Dyed), No. 1 Ultra Low Sulfur

Diesel (Dyed/Undyed)

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated light	≥90	64742-47-8
Kerosine (Petroleum), Hydrodesulfurized	≥90	64742-81-0
Kerosine (Petroleum)	≥90	8008-20-6
Naphthalene	≥3 - ≤5	91-20-3

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 classified 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

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

Ingestion : May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

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

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 dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the chemical : 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.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide

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

Precautions 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
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours.
Kerosine (Petroleum), Hydrodesulfurized	ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours.
Kerosine (Petroleum)	NIOSH REL (United States, 10/2016). TWA: 100 mg/m³ 10 hours.
	ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 200 mg/m³. (as total hydrocarbon vapor) 8 hours.
Naphthalene	ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 10 ppm 8 hours.
	TWA: 52 mg/m³ 8 hours. NIOSH REL (United States, 10/2016).
	TWA: 10 ppm 10 hours. TWA: 50 mg/m³ 10 hours.
	STEL: 15 ppm 15 minutes.
	STEL: 75 mg/m³ 15 minutes. OSHA PEL (United States, 6/2016).
	TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 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.

Eye/face protection Skin protection Hand protection : Recommended: Splash goggles and a face shield, where splash hazard exists.

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

Body protection
Other skin protection

Appearance

- : Recommended: Long sleeved coveralls.
- : Recommended: Impervious boots.
- **Respiratory protection** : If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate

Section 9. Physical and chemical properties

Physical state : Liquid. [May contain red dye.]

Color : Clear, light yellow or light green (may be

dyed red).

Odor : Kerosene.
Odor threshold : Not available.
pH : Not available.

Melting point : $<-40^{\circ}\text{C} (<-40^{\circ}\text{F})$

Boiling point : 149 to 300°C (300.2 to 572°F)

Flash point : Closed cup: 38 to 66°C (100.4 to 150.8°F)

[Tagliabue.]

Flammability : Not available.

Lower and upper explosive (flammable) limits

: Lower: 0.7% Upper: 7% Relative density : 0.775 to 0.84

Evaporation rate : <1 (Butyl acetate = 1)

Solubility : Insoluble in the following materials: cold water

and hot water.

Not available.

Solubility in water : <0.1%

Partition coefficient: n-

octanol/water

: 210°C (410°F)

Auto-ignition temperature

Decomposition temperature

: Not available.

SADT : Not available.

Viscosity : Kinematic (40°C (104°F)): 0.012 to 0.04 cm²/s

(1.2 to 4 cSt)

Vapor pressure : 0.053 kPa (0.4 mm Hg.

Vapor density : >4.5 [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
Kerosine (Petroleum), Hydrodesulfurized	LD50 Oral	Rat	>5000 mg/kg	-
Kerosine (Petroleum)	LD50 Oral	Rat	15 g/kg	-
Naphthalene	LD50 Dermal LD50 Oral		>20 g/kg 490 mg/kg	_

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kerosine (petroleum), hydrodesulfurized	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Kerosine (petroleum)	Skin - Severe irritant	Rabbit	-	500 mg	-
,	Skin - Moderate irritant	Rabbit	-	24 hours 100%	-
	Skin - Moderate irritant	Rabbit	-	0.5 mL	-
Naphthalene	Skin - Mild irritant	Rabbit	-	495 mg	-
•	Skin - Severe irritant	Rabbit	-	24 hours 0.05 mL	-

Sensitization

Skin : There is no data available.

Respiratory : There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Kerosine (Petroleum)	-	3	- Descensibly entiringted to be a human parainagen
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)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

Name	Result
Kerosine (Petroleum), Hydrodesulfurized	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

exposure

Information on the likely routes of: Dermal contact. Eye contact. Inhalation. Ingestion.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Distillates (petroleum), hydrotreated light	Acute LC50 2200 μg/L Fresh water	Fish - Lepomis macrochirus	4 days
Naphthalene	Acute EC50 1600 μg/L Fresh water Acute LC50 2350 μg/L Marine water Acute LC50 213 μg/L Fresh water Chronic NOEC 0.5 mg/L Marine water Chronic NOEC 1.5 mg/L Fresh water	Daphnia - Daphnia magna - Neonate Crustaceans - Palaemonetes pugio Fish - Melanotaenia fluviatilis - Larvae Crustaceans - Uca pugnax - Adult Fish - Oreochromis mossambicus	48 hours 48 hours 96 hours 3 weeks 60 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
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 UN1202

DOT proper shipping name

DIESEL FUEL RQ (Naphthalene)

DOT Hazard Class(es) 3

PG III

DOT EMER. RESPONSE GUIDE NO. 128

Section 15. Regulatory information

: TSCA 8(a) PAIR: Naphthalene U.S. Federal regulations

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: 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 **DEA List II Chemicals (Essential Chemicals)** : Not listed : Not listed

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

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Hazard classifications FLAMMABLE LIQUIDS - Category 3

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1

Composition/information on ingredients

Name	Classification
Distillates (petroleum), hydrotreated light	FLAMMABLE LIQUIDS - Category 3
	ASPIRATION HAZARD - Category 1
Kerosine (Petroleum), Hydrodesulfurized	FLAMMABLE LIQUIDS - Category 3
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	ASPIRATION HAZARD - Category 1
Kerosine (Petroleum)	FLAMMABLE LIQUIDS - Category 3
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	ASPIRATION HAZARD - Category 1
Naphthalene	FLAMMABLE SOLIDS - Category 2
	ACUTE TOXICITY (oral) - Category 4
	CARCINOGENICITY - Category 2

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	%
Naphthalene	91-20-3	<3

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 : The following components are listed: Kerosine (Petroleum); Naphthalene

New York The following components are listed: Naphthalene

New Jersey : The following components are listed: Kerosine (Petroleum); Naphthalene Pennsylvania : The following components are listed: Kerosine (Petroleum); Naphthalene

California Prop. 65

WARNING: This product can expose you to Naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name		Maximum acceptable dosage level
Naphthalene	Yes.	-

Section 16. Other information

: 06/01/2021 : 10/17/2017 Review date Supersedes

: None : KMK Regulatory Services Inc. Revised Section(s) Prepared by

Notice to reader
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