

Version 2.7 Revision Date 2023-09-19

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information

Product Name : Jet A Aviation Fuel

Material : 1126286, 1126287, 1102484, 1103429, 1102481, 1103418,

1102485, 1102483, 1102482, 1024254, 1024255, 1024256,

1024257, 1104981, 1104992

Use : Fuel

Company : Chevron Phillips Chemical Company LP

Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380

Emergency telephone:

Health

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic

Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

: Flammable liquids, Category 3 Skin irritation, Category 2 Carcinogenicity, Category 2

Specific target organ toxicity - single exposure, Category 3,

Central nervous system

Specific target organ toxicity - repeated exposure, Category 2,

Inhalation, Auditory organs Aspiration hazard, Category 1

Labeling

Symbol(s) :







Signal Word : Danger

Hazard Statements : H226: Flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness. H351: Suspected of causing cancer.

H373: May cause damage to organs (Auditory organs) through

prolonged or repeated exposure if inhaled.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

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

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

Naphthalene 91-20-3 Ethylbenzene 100-41-4

NTP Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3

SECTION 3: Composition/information on ingredients

Synonyms : Aviation Turbine Fuel A

Kerosene Turbine Fuel

Kerosene Jet A-1 Fuel Jet A Fuel

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Molecular formula **UVCB**

Component	CAS-No.	Weight %
Kerosene C9-C16	8008-20-6	0 - 100
Distillates (petroleum), Hydrotreated	64742-47-8	0 - 100
light		
Kerosine, petroleum, hydrosulfurized	64742-81-0	0 - 100
Naphthalene	91-20-3	0 - 3
Ethylbenzene	100-41-4	0 - 1

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data

> sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : Consult a physician after significant exposure. If unconscious,

place in recovery position and seek medical advice.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well

with water. If on clothes, remove clothes.

: Flush eyes with water as a precaution. Remove contact In case of eye contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point 37.8°C (100.0°F)

Autoignition temperature 210°C (410°F)

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

: High volume water jet.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective

equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Further information Collect contaminated fire extinguishing water separately. This

> must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case

of fire, cans should be stored separately in closed

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containments. Use a water spray to cool fully closed

containers.

Fire and explosion protection

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition

products

: Hydrocarbons. Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low

areas.

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

Methods for cleaning up : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

SECTION 7: Handling and storage

Handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid

exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with

local and national regulations.

Advice on protection against fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

Components	Basis	Value	Control parameters	Note
Distillates (petroleum), Hydrotreated light	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	ACGIH	TWA	200 mg/m3	A3, Skin,
	OSHA Z-1	TWA	5 mg/m3	Mist
	OSHA Z-1-A	TWA	5 mg/m3	Mist
Kerosene C9-C16	ACGIH	TWA	200 mg/m3	A3, Skin,
	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
Kerosine, petroleum, hydrosulfurized	ACGIH	TWA	200 mg/m3	A3, Skin,
Naphthalene	ACGIH	TWA	10 ppm,	A3, Skin,
	ACGIH	STEL	15 ppm,	hematologic eff, URT irr, eye irr, eye dam, (), A4, Skin,
	OSHA Z-1	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	STEL	15 ppm, 75 mg/m3	
Ethylbenzene	OSHA Z-1	TWA	100 ppm, 435 mg/m3	
-	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A	STEL	125 ppm, 545 mg/m3	
	ACGIH	TWA	20 ppm,	A3,

- () Adopted values or notations enclosed are those for which changes are proposed in the NIC
- b) The value in mg/m3 is approximate.
- A3 Confirmed animal carcinogen with unknown relevance to humans
- A4 Not classifiable as a human carcinogen

eye dam Eye damage eye irr Eye irritation hematologic eff Hematologic effects

Skin Danger of cutaneous absorption URT irr Upper Respiratory Tract irritation

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Distillates (petroleum), Hydrotreated light	64742-47-8	Immediately Dangerous to Life or Health Concentration Value 2500 mg/m³	2017-09-01
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 parts per million	1995-03-01
Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 parts per million	1995-03-01

Biological exposure indices

US

Substance name	CAS-No.	Control parameters	Sampling time	Update
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid: 0.15 g/g creatinine Nonspecific (Urine)	End of shift (As soon as possible after exposure ceases)	2016-03-01

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

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Personal protective equipment

Respiratory protection : If ventilation or other engineering controls are not adequate to

maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators

may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form : liquid Physical state : liquid

Color : Clear light yellow

Safety data

Flash point : 37.8°C (100.0°F)

Lower explosion limit : 0.6 %(V)

Upper explosion limit : 4.7 %(V)

Oxidizing properties : No

Autoignition temperature : 210°C (410°F)

Molecular formula : UVCB

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Molecular weight : Not applicable

pH : Not applicable

Pour point : No data available

Boiling point/boiling range : 149-300°C (300-572°F)

Vapor pressure : 0.40 MMHG

at 20°C (68°F)

Relative density : 0.775

at 20 °C (68 °F)

Density : 806.5 g/l

Water solubility : negligible

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : 1.5 cSt

at 20°C (68°F)

Relative vapor density : 4.5

(Air = 1.0)

Evaporation rate : 1

Percent volatile : > 99 %

SECTION 10: Stability and reactivity

Reactivity : Stable under recommended storage conditions.

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

air.

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous decomposition : Hydrocarbons

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products Carbon oxides

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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Acute oral toxicity : LD50: > 5,000 mg/kg

Species: Rat

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Acute inhalation toxicity : Acute toxicity estimate: 5.07 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute toxicity estimate: > 40 mg/l

Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

Acute dermal toxicity

Kerosene C9-C16 : LD50: >2000 milligram per kilogram

Species: Rabbit

Distillates (petroleum),

Hydrotreated light

LD50: >2 g/kg Species: Rabbit

Method: OECD Test Guideline 402

Ethylbenzene LD50: 15,415 mg/kg

Species: Rabbit

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Skin irritation : May cause skin irritation in susceptible persons.

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Eye irritation : Vapors may cause irritation to the eyes, respiratory system

and the skin.

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Sensitization : No adverse effects expected.

Repeated dose toxicity

Kerosene C9-C16 : Species: Rabbit

Application Route: Dermal Dose: 0, 200, 1000, 2000 mg/kg

Exposure time: 28 day

Number of exposures: 3 times/wk

Lowest observable effect level: 1,000 mg/kg

Distillates (petroleum),

Species: Rat, male Sex: male

Hydrotreated light

Application Route: inhalation (vapor)

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Dose: 0 , 500, 1000 mg/m3 Exposure time: 13 wks Number of exposures: 24 h/d

Lowest observable effect level: 500 mg/m3

Method: OECD Guideline 413 Target Organs: Kidney

Species: Rat, female

Sex: female

Application Route: inhalation (vapor)

Dose: 0, 500, 1000 mg/m3 Exposure time: 13 wks Number of exposures: 24 h/d NOEL: > 1000 mg/m3 Method: OECD Guideline 413

No adverse effect has been observed in chronic toxicity tests.

Ethylbenzene Species: Rat, male

Sex: male

Application Route: Inhalation Dose: 200, 400, 600, 800 ppm Exposure time: 13 weeks

Number of exposures: 6 hours/day, 6 days/week

NOEL: 200 ppm Test substance: yes Target Organs: Ototoxicity

Genotoxicity in vitro

Kerosene C9-C16 : Test Type: Ames test

Result: negative

Test Type: Mouse lymphoma assay

Result: positive

Naphthalene Test Type: Ames test

Result: negative

Test Type: Sister Chromatid Exchange Assay

Result: negative

Test Type: Unscheduled DNA synthesis assay

Result: negative

Ethylbenzene Test Type: Ames test

Result: negative

Test Type: Unscheduled DNA synthesis assay

Result: negative

Genotoxicity in vivo

Kerosene C9-C16 : Test Type: Cytogenetic assay

Result: negative

Naphthalene Test Type: Mouse micronucleus assay

Result: negative

Ethylbenzene Test Type: Mouse micronucleus assay

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Species: Mouse Result: negative

Carcinogenicity

Kerosene C9-C16 : Species: Mouse

Dose: 0, 28.5, 50, 100% Exposure time: 104 wks

Number of exposures: 2, 4, or 7 times/wk

Naphthalene Species: Mouse

Sex: male

Dose: 10, 30 ppm

Exposure time: 105 weeks

Number of exposures: 6 hours/day, 5 days/week

Test substance: yes

Print Date: No information available. Remarks: No evidence of carcinogenicity

Species: Mouse Sex: female Dose: 10, 30 ppm

Exposure time: 105 weeks

Number of exposures: 6 hours/day, 5 days/week

Test substance: yes

Print Date: No information available.

Remarks: increased incidence of alveolar/bronchiolar

adenomas

Species: Rat

Sex: male and female Dose: 10, 30, 60 ppm Exposure time: 105 weeks

Number of exposures: 6 hours/day, 5 days/week

Test substance: yes

Print Date: No information available.

Remarks: nose respiratory epithelial adenoma, increased

incidence of olfactory neuroblastomas

Developmental Toxicity

Kerosene C9-C16 : Species: Rat

Application Route: Inhalation Dose: 0, 106, 364 ppm Exposure time: 6 hrs/d Test period: GD 6-15

NOAEL Teratogenicity: 364 ppm NOAEL Maternal: 364 ppm

Distillates (petroleum),

Species: Rat

Hydrotreated light Application Route: Inhalation

Dose: 0, 106, 364 mg/l Exposure time: 6h/d Test period: GD 6 - 20

NOAEL Teratogenicity: >= 364 mg/l NOAEL Maternal: >= 364 mg/l

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Species: Rat

Application Route: oral gavage Dose: 500, 1000, 1500, 2000 mg/kg/d

Exposure time: 10 d Test period: GD 6 - 15 Method: OECD Guideline 414 NOAEL Teratogenicity: 1,000 mg/kg NOAEL Maternal: 500 mg/kg

Naphthalene Species: Rabbit

Application Route: oral gavage Dose: 40, 200, 400 mg/kg Test period: 29 d, GD 6-18 NOAEL Teratogenicity: 400 mg/kg

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Aspiration toxicity : May be fatal if swallowed and enters airways.

Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity

hazard.

CMR effects

Naphthalene : Carcinogenicity: Limited evidence of carcinogenicity in animal

studies

Ethylbenzene Carcinogenicity: Weight of evidence does not support

classification as a carcinogen

Mutagenicity: In vivo tests did not show mutagenic effects Teratogenicity: Did not show teratogenic effects in animal

experiments.

Reproductive toxicity: No toxicity to reproduction

Jet A Aviation Fuel Further information

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents

may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish

Kerosene C9-C16 : LL50: 2 - 5 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 203

Distillates (petroleum), Hydrotreated light NOEC: 2 mg/l Exposure time: 96 h

Species: Salmo gairdneri (Rainbow trout)

Method: OECD Test Guideline 203

Naphthalene LC50: 3.2 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

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Ethylbenzene LC50: 4.3 mg/l

Exposure time: 96 h

Species: Marone saxatilis (striped bass)

Toxicity to daphnia and other aquatic invertebrates

Kerosene C9-C16 : EL50: 1.4 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Distillates (petroleum), EL50: 1.4 mg/l Hydrotreated light Exposure time: 48 h

Species: Daphnia magna (Water flea)

static test Method: OECD Test Guideline 202

Naphthalene LC50: 2.16 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Ethylbenzene LC50: 2.6 mg/l

Exposure time: 96 h

Species: Mysidopsis bahia (mysid shrimp)

EC50: 2.2 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to algae

Kerosene C9-C16 : EL50: 1 - 3 mg/l

Exposure time: 72 h

Species: Raphidocellus subcapitata (algae)

Method: OECD Test Guideline 201

Distillates (petroleum), EL50: 1 - 3 mg/l Hydrotreated light Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Naphthalene EC50: 2.96 mg/l

Exposure time: 48 h

Species: Selenastrum capricornutum (algae)

Ethylbenzene ErC50: 5.0 mg/l

Exposure time: 96 h

Species: Selenastrum capricornutum (algae)

ErC50: 7.7 mg/l Exposure time: 72 h

Species: Skeletonema costatum (Marine Algae)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

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Distillates (petroleum), : NOEC: 0.48 mg/l

Hydrotreated light Exposure time: 21 Days

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

: NOEC: 1 mg/l Ethylbenzene

Exposure time: 7 d

Species: Daphnia pulex (Water flea)

semi-static test

Analytical monitoring: yes

Biodegradability : Expected to be ultimately biodegradable

Elimination information (persistence and degradability)

Bioaccumulation

Kerosene C9-C16 : The product may be accumulated in organisms.

Distillates (petroleum),

: The product may be accumulated in organisms.

Hydrotreated light

Kerosine, petroleum,

: The product may be accumulated in organisms.

hydrosulfurized

Ethylbenzene : Bioconcentration factor (BCF): 110

Mobility

Kerosene C9-C16 : No data available

Distillates (petroleum),

Hydrotreated light

: No data available

Kerosine, petroleum,

hydrosulfurized

: No data available

Ethylbenzene : Method: Calculation, Mackay Level I Fugacity Model

Disperses rapidly in air.

Results of PBT assessment

: Non-classified vPvB substance. Non-classified PBT substance Ethylbenzene

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with

long lasting effects.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

Kerosene C9-C16 : Toxic to aquatic life.

Distillates (petroleum),

Hydrotreated light

: Toxic to aquatic life.

Kerosine, petroleum,

: Toxic to aquatic life.

hydrosulfurized

Naphthalene Very toxic to aquatic life.

Ethylbenzene : Toxic to aquatic life.

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Long-term (chronic) aquatic hazard

Kerosene C9-C16 : Toxic to aquatic life with long lasting effects.

Distillates (petroleum),

: Toxic to aquatic life with long lasting effects.

Hydrotreated light

Kerosine, petroleum, : Toxic to aquatic life with long lasting effects.

hydrosulfurized

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

Ethylbenzene : Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : The product should not be allowed to enter drains, water

> courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed

waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers. Do not burn, or use a cutting

torch on, the empty drum.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III, (37.8 °C c.c.), MARINE POLLUTANT, (KEROSENE C9-C16)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

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UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (KEROSENE C9-C16)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF **DANGEROUS GOODS (EUROPE))**

30, UN1863, FUEL. AVIATION, TURBINE ENGINE, 3, III, ENVIRONMENTALLY HAZARDOUS, (KEROSENE C9-C16)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III, ENVIRONMENTALLY HAZARDOUS, (KEROSENE C9-C16)

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Skin corrosion or irritation

CERCLA Reportable

Quantity

: 2857 lbs

Naphthalene

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: This material does not contain any components with a section

302 EHS TPQ.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Components : The following components are subject to reporting levels

established by SARA Title III, Section 313:

: Naphthalene - 91-20-3 Ethylbenzene - 100-41-4

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Clean Air Act

Potential

Ozone-Depletion

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

: Naphthalene - 91-20-3 Ethylbenzene - 100-41-4

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

: Ethylbenzene - 100-41-4

US State Regulations

Pennsylvania Right To Know

: Distillates (petroleum), Hydrotreated light - 64742-47-8

Kerosene C9-C16 - 8008-20-6

Kerosine, petroleum, hydrosulfurized - 64742-81-0

Naphthalene - 91-20-3 Ethylbenzene - 100-41-4

California Prop. 65

Components

: WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to

cause cancer. For more information go to

www.P65Warnings.ca.gov/food.

Naphthalene 91-20-3 Ethylbenzene 100-41-4

Notification status

Europe REACH Not in compliance with the inventory Switzerland CH INV Not in compliance with the inventory

United States of America (USA) On or in compliance with the active portion of the

TSCA TSCA inventory

Canada DSL All components of this product are on the Canadian

DSL

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Australia AIIC : On the inventory, or in compliance with the inventory

New Zealand NZIoC : Not in compliance with the inventory Japan ENCS : Not in compliance with the inventory

Korea KECI : A substance(s) in this product was not registered,

notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 2 Reactivity Hazard: 0



Further information

Legacy SDS Number : 1975

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health

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	Scenario Tool		Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

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