

**Pyrolysis Gasoline Blend**

Version 1.1

Revision Date 2025-07-23

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

Product Name : Pyrolysis Gasoline Blend  
Company : Ras Laffan Olefins Company Ltd.  
Amwal Tower, Omar Al Mukhtar St,  
Al-Dafna (Zone 61)  
PO Box 24646  
Doha, Qatar

SDS Requests: (+974) 4484-7110  
Technical Information : (+974) 4476-7145  
Responsible Party: Product Safety Group  
Email: MSDSInquiry@qchem.com.qa

**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)

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca' Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico “Agostino Gemelli”, Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico “Umberto I” Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera “Antonio Cardarelli” Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera “Papa Giovanni XXIII” Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;

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 1  
 Acute toxicity, Category 4, Oral  
 Acute toxicity, Category 4, Inhalation  
 Skin irritation, Category 2  
 Eye irritation, Category 2A  
 Germ cell mutagenicity, Category 1B  
 Carcinogenicity, Category 1A  
 Reproductive toxicity, Category 2  
 Specific target organ toxicity - single exposure, Category 3,  
 Respiratory system, Central nervous system  
 Specific target organ toxicity - repeated exposure, Category 1,  
 Blood, Auditory organs  
 Specific target organ toxicity - repeated exposure, Category 1,  
 Inhalation, Auditory organs  
 Specific target organ toxicity - repeated exposure, Category 2,  
 Inhalation, color vision, Nervous system  
 Aspiration hazard, Category 1

**Labeling**

SDS Number:100000106990

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Symbol(s)

:



Signal Word

:

Danger

Hazard Statements

:

H224: Extremely flammable liquid and vapor.  
 H302 + H332: Harmful if swallowed or if inhaled.  
 H304: May be fatal if swallowed and enters airways.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H335: May cause respiratory irritation.  
 H336: May cause drowsiness or dizziness.  
 H340: May cause genetic defects.  
 H350: May cause cancer.  
 H361d: Suspected of damaging the unborn child.  
 H372: Causes damage to organs (Blood, Auditory organs) through prolonged or repeated exposure.  
 H372: Causes damage to organs (Auditory organs) through prolonged or repeated exposure if inhaled.  
 H373: May cause damage to organs (color vision, Nervous system) through prolonged or repeated exposure if inhaled.

Precautionary Statements

:

**Prevention:**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P260 Do not breathe mist or vapors.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
 P280 Wear protective gloves, protective clothing, eye protection and 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.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P331 Do NOT induce vomiting.

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P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it 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.

Potential Health Effects

Symptoms of Overexposure : No data available

Carcinogenicity:

IARC	Group 2A: Probably carcinogenic to humans	
	Styrene	100-42-5
	Group 1: Carcinogenic to humans	
	Benzene	71-43-2
	1,3-Butadiene	106-99-0
	Group 2B: Possibly carcinogenic to humans	
	Distillates (petroleum), steam-cracked, C5-12 fraction	68477-53-2
	Ethylbenzene	100-41-4
	Isoprene	78-79-5
	Naphthalene	91-20-3
	Cumene	98-82-8
NTP	Known to be human carcinogen	
	Benzene	71-43-2
	1,3-Butadiene	106-99-0
	Phenanthrene	85-01-8
	Reasonably anticipated to be a human carcinogen	
	Styrene	100-42-5
	Isoprene	78-79-5
	Naphthalene	91-20-3
	Acenaphthene	83-32-9
	Fluorene	86-73-7
	Phenanthrene	85-01-8
	Cumene	98-82-8

SECTION 3: Composition/information on ingredients

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Component	CAS-No.	Weight %
Hydrocarbons, ethylene-manuf.-by-product distn. residues	68921-67-5	75
Distillates (petroleum), steam-cracked, C5-12 fraction	68477-53-2	25
Benzene	71-43-2	30 - 70
Tricyclo[5.2.1.0 <sup>2,6</sup> ]decane	6004-38-2	0 - 10
Paraffins & Isoparaffins C5 – C20		1 - 8
n-Pentane	109-66-0	0.1 - 4
Cyclopentane	287-92-3	0.1 - 2
n-hexane	110-54-3	0.05 - 1.25
Toluene	108-88-3	1 - 25
Cyclohexane	110-82-7	0.1 - 4
Styrene	100-42-5	2 - 4
Methylcyclopentane	96-37-7	0 - 3
Isopentane	78-78-4	0.1 - 4
Ethylbenzene	100-41-4	0.1 - 10
Aromatics, C10+		0.1 - 2
Naphthalene	91-20-3	0.1 - 3
1-Methylnaphthalene	90-12-0	0 - 3
2-Methylnaphthalene	91-57-6	0 - 3
Naphthalenes, Di-Substituted		0.01 - 1.35
Indene	95-13-6	0.1 - 2
Olefins & Diolefins, C10 +		0.1 - 3
Aromatics, C7-C9		5 - 15
Xylenes	1330-20-7	0.1 - 10
C4 & lighter paraffins		0.1 - 4
1,3-Butadiene	106-99-0	0 - 4
Butanes		0 - 4
n-Butane	106-97-8	0 - 4
Olefins & Diolefins, C3 – C9		35 - 40
Butene	25167-67-3	0 - 4
1-Hexene	592-41-6	0 - 3
Mercaptans (C2-C12 Linear and Branched)		0 - 0.2
Hydrogen Sulfide	7783-06-4	0 - 0.005
Dicyclopentadiene	77-73-6	0 - 25
Cyclopentadiene	542-92-7	0 - 8
Acenaphthene	83-32-9	0 - 1
Biphenyl	92-52-4	0 - 1
Fluorene	86-73-7	0 - 1
Phenanthrene	85-01-8	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.
- In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact

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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.

**Notes to physician**

Symptoms : No data available.

Risks : No data available.

Treatment : No data available.

**SECTION 5: Firefighting measures**

Flash point : -10°C (14°F)  
estimated

Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). 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 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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

**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.

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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. Container may be opened only under exhaust ventilation hood. 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). Use only explosion-proof equipment. 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.

**SECTION 8: Exposure controls/personal protection****Ingredients with workplace control parameters****US**

Components	Basis	Value	Control parameters	Note
Benzene	ACGIH	TWA	0.02 ppm,	A1, Skin,
	OSHA Z-1-A	TWA	1 ppm,	
	OSHA Z-1-A	CEIL	5 ppm,	
	OSHA Z-2	Peak	50 ppm,	
	OSHA 29 CFR 1910.1028(c)	TWA	1 ppm,	
	OSHA 29 CFR 1910.1028(c)	STEL	5 ppm,	
	OSHA CARC	PEL	1 ppm,	
Distillates (petroleum), steam-cracked, C5-12 fraction	OSHA CARC	STEL	5 ppm,	
	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	
Dicyclopentadiene	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	ACGIH	TWA	0.5 ppm,	
	OSHA Z-1-A	TWA	5 ppm, 30 mg/m3	
	ACGIH	STEL	1 ppm,	
Toluene	ACGIH	TWA	20 ppm,	OTO, A4,
	OSHA Z-2	TWA	200 ppm,	
	OSHA Z-2	CEIL	300 ppm,	
	OSHA Z-2	Peak	500 ppm,	
	OSHA Z-1-A	TWA	100 ppm, 375 mg/m3	

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	OSHA Z-1-A	STEL	150 ppm, 560 mg/m3	
Cyclopentadiene	ACGIH	TWA	0.5 ppm,	
	OSHA Z-1	TWA	75 ppm, 200 mg/m3	
	OSHA Z-1-A	TWA	75 ppm, 200 mg/m3	
	ACGIH	STEL	1 ppm,	
	ACGIH	TWA	0.5 ppm,	URT irr, LRT irr, eye irr,
Styrene	OSHA Z-2	TWA	100 ppm,	
	OSHA Z-2	CEIL	200 ppm,	
	OSHA Z-2	Peak	600 ppm,	
	OSHA Z-1-A	TWA	50 ppm, 215 mg/m3	
	OSHA Z-1-A	STEL	100 ppm, 425 mg/m3	
	ACGIH	TWA	10 ppm,	OTO, A3,
	ACGIH	STEL	20 ppm,	OTO, A3,
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,	OTO, A3,
Xylenes	OSHA Z-1	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A	STEL	150 ppm, 655 mg/m3	
	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
	ACGIH	TWA	20 ppm,	OTO, A4,
	ACGIH	STEL	150 ppm,	A4,
n-hexane	ACGIH	TWA	50 ppm,	Skin,
	OSHA Z-1	TWA	500 ppm, 1,800 mg/m3	
	OSHA Z-1-A	TWA	50 ppm, 180 mg/m3	
Isopentane	ACGIH	TWA	1,000 ppm,	
1,3-Butadiene	ACGIH	TWA	2 ppm,	A2,
	OSHA Z-1	TWA	1 ppm,	
	OSHA Z-1	STEL	5 ppm,	
	OSHA CARC	PEL	1 ppm,	
	OSHA 29 CFR 1910.1051(c)	TWA	1 ppm,	
	OSHA CARC	STEL	5 ppm,	
	OSHA 29 CFR 1910.1051(c)	STEL	5 ppm,	
n-Heptane	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	OSHA Z-1-A	STEL	500 ppm, 2,000 mg/m3	
	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	
Isoheptane	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	
Isoprene	US WEEL	TWA	2 ppm,	
Methylcyclopentane	ACGIH	TWA	500 ppm,	CNS impair, URT irr, eye irr,
	ACGIH	STEL	1,000 ppm,	CNS impair, URT irr, eye irr,
	OSHA Z-1-A	TWA	500 ppm, 1,800 mg/m3	
	OSHA Z-1-A	STEL	1,000 ppm, 3,600 mg/m3	
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	
n-Octane	OSHA Z-1	TWA	500 ppm, 2,350 mg/m3	
	OSHA Z-1-A	TWA	300 ppm, 1,450 mg/m3	
	OSHA Z-1-A	STEL	375 ppm, 1,800 mg/m3	
	ACGIH	TWA	300 ppm,	
Indene	ACGIH	TWA	5 ppm,	
	OSHA Z-1-A	TWA	10 ppm, 45 mg/m3	
1-Methylnaphthalene	ACGIH	TWA	0.5 ppm,	A4, Skin,
	ACGIH		0.05 ppm, 3mg/100 cm2	A4, Skin,
2-Methylnaphthalene	ACGIH	TWA	0.5 ppm,	A4, Skin,
	ACGIH		0.05 ppm, 3mg/100 cm2	A4, Skin,
Cyclopentane	ACGIH	TWA	1,000 ppm,	
	OSHA Z-1-A	TWA	600 ppm, 1,720 mg/m3	
Cyclohexane	ACGIH	TWA	100 ppm,	
	OSHA Z-1	TWA	300 ppm, 1,050 mg/m3	
	OSHA Z-1-A	TWA	300 ppm, 1,050 mg/m3	
n-Pentane	OSHA Z-1	TWA	1,000 ppm, 2,950 mg/m3	
	OSHA Z-1-A	TWA	600 ppm, 1,800 mg/m3	
	OSHA Z-1-A	STEL	750 ppm, 2,250 mg/m3	
	ACGIH	TWA	1,000 ppm,	
n-Butane	OSHA Z-1-A	TWA	800 ppm, 1,900 mg/m3	
	ACGIH	STEL	1,000 ppm,	CNS impair, EX,
	ACGIH	STEL	1,000 ppm,	



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1-Hexene	ACGIH	TWA	50 ppm,	
Phenanthrene	OSHA Z-1-A	TWA	0.2 mg/m3	
	OSHA Z-1	TWA	0.2 mg/m3	
Cumene	ACGIH	TWA	5 ppm,	A3,
	OSHA Z-1	TWA	50 ppm, 245 mg/m3	X,
	OSHA Z-1-A	TWA	50 ppm, 245 mg/m3	X,

( ) Adopted values or notations enclosed are those for which changes are proposed in the NIC

A1 Confirmed human carcinogen

A2 Suspected human carcinogen

A3 Confirmed animal carcinogen with unknown relevance to humans

A4 Not classifiable as a human carcinogen

CNS impair Central Nervous System impairment

EX Explosion hazard: the substance is a flammable asphyxiant or excursions above the TLV ® could approach 10% of the lower explosive limit.

eye dam Eye damage

eye irr Eye irritation

hematologic eff Hematologic effects

LRT irr Lower Respiratory Tract irritation

OTO Ototoxicant

Skin Danger of cutaneous absorption

URT irr Upper Respiratory Tract irritation

X Skin notation

## Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Benzene	71-43-2	Immediately Dangerous to Life or Health Concentration Value 500 parts per million	1995-03-01
Toluene	108-88-3	Immediately Dangerous to Life or Health Concentration Value 500 parts per million	1995-03-01
Cyclopentadiene	542-92-7	Immediately Dangerous to Life or Health Concentration Value 750 parts per million	1995-03-01
Styrene	100-42-5	Immediately Dangerous to Life or Health Concentration Value 700 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
Xylenes	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	2017-09-01
n-hexane	110-54-3	Immediately Dangerous to Life or Health Concentration Value 1100 parts per million	1995-03-01
1,3-Butadiene	106-99-0	Immediately Dangerous to Life or Health Concentration Value 2000 parts per million	2017-02-03
n-Heptane	142-82-5	Immediately Dangerous to Life or Health Concentration Value 750 parts per million	1995-03-01
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 parts per million	1995-03-01
n-Octane	111-65-9	Immediately Dangerous to Life or Health Concentration Value 1000 parts per million	1995-03-01
Cyclohexane	110-82-7	Immediately Dangerous to Life or Health Concentration Value 1300 parts per million	1995-03-01
n-Pentane	109-66-0	Immediately Dangerous to Life or Health Concentration Value 1500 parts per million	1995-03-01
n-Butane	106-97-8	Immediately Dangerous to Life or Health Concentration Value 1600 parts per million	2017-02-03
Phenanthrene	85-01-8	Immediately Dangerous to Life or Health Concentration Value 80 mg/m³	2017-09-01

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Cumene	98-82-8	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	1995-03-01
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**Biological exposure indices****US**

Substance name	CAS-No.	Control parameters	Sampling time	Update
Benzene	71-43-2	S-Phenylmercapturic acid: 25 µg/g creatinine Background (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01
		t,t-Muconic acid: 500 µg/g creatinine Background (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01
Toluene	108-88-3	Toluene: 0.02 mg/l (In blood)	Prior to last shift of workweek	2010-03-01
		Toluene: 0.03 mg/l (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01
		o-Cresol: 0.3 mg/g creatinine Background (Urine) With hydrolyses ( )	End of shift (As soon as possible after exposure ceases)	2010-03-01
Styrene	100-42-5	Mandelic acid plus phenylglyoxylic acid: 150 mg/g creatinine Nonspecific (Urine)	End of shift (As soon as possible after exposure ceases)	2024-01-01
		Styrene: 20 µg/l (Urine)	End of shift (As soon as possible after exposure ceases)	2024-01-01
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid: 150 mg/g creatinine 2024 Adoption (Urine) Nonspecific ( )	End of shift (As soon as possible after exposure ceases)	2024-01-01
Xylenes	1330-20-7	Methylhippuric acids: 0.3 g/g creatinine 2024 Adoption (Urine) Commercial or technical grade xylenes consist of mixtures of isomers and significant amounts of ethyl benzene as indicated under 'Properties.' Because ethyl benzene is known to reduce the metabolism of xylenes to methylhippuric acids, the BEI applies to technical or commercial grades of xylenes only. ( ) The determinants refer to the total of all isomers of methylhippuric acids. ( ) Adopted values or notations enclosed are those for which changes are proposed in the NIC ( )	End of shift (As soon as possible after exposure ceases)	2024-01-01
n-hexane	110-54-3	2,5-Hexanedione: 0.5 mg/l Without hydrolysis (Urine)	End of shift	2020-02-01
1,3-Butadiene	106-99-0	1,2 Dihydroxy-4-(N-acetylcysteinyl)-butane: 2.5 mg/l Background (Urine) Semi-quantitative ( )	End of shift (As soon as possible after exposure ceases)	2010-03-01
		Mixture of N-1 and N-2(hydroxybutenyl)valine: 2.5 picomoles per gram Hemoglobin Semi-quantitative (Hemoglobin (Hb) adducts in blood)	Not critical	2010-03-01

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Acenaphthene	83-32-9	1-Hydroxypyrene: 2.5 µg/l Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed (Urine) Background () With hydrolyses ()	End of shift at end of workweek	2018-03-20
		3-hydroxybenzo(a)pyrene: Nonquantitative (Urine) With hydrolyses ()	End of shift at end of workweek	2018-03-20
Fluorene	86-73-7	1-Hydroxypyrene: 2.5 µg/l Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed (Urine) Background () With hydrolyses ()	End of shift at end of workweek	2018-03-20
		3-hydroxybenzo(a)pyrene: Nonquantitative (Urine) With hydrolyses ()	End of shift at end of workweek	2018-03-20
Phenanthrene	85-01-8	1-Hydroxypyrene: 2.5 µg/l Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed (Urine) Background () With hydrolyses ()	End of shift at end of workweek	2018-03-20
		3-hydroxybenzo(a)pyrene: Nonquantitative (Urine) With hydrolyses ()	End of shift at end of workweek	2018-03-20

**Engineering measures**

Adequate ventilation to control airborne 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.

**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. Full-Face Air-Purifying Respirator for Organic Vapors, Dusts and Mists. 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

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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 : Brown  
Odor : Pungent  
Odor Threshold : No data available

**Safety data**

Flash point : -10°C (14°F)  
estimated

Ignition temperature : 500°C (932°F)

Lower explosion limit : No data available

Upper explosion limit : No data available

Molecular weight : 96.2 g/mol

pH : Not applicable

Freezing point : No data available

Melting point/ range : No data available

Initial boiling point and boiling range : 20-30°C (68-86°F)

Vapor pressure : 6.30 PSI

Relative density : 0.8595

Density : 858.7 kg/m3

Water solubility : Insoluble

Viscosity, kinematic : 0.734 cSt  
at 40°C (104°F)

Conductivity : No data available

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**SECTION 10: Stability and reactivity**

<b>Reactivity</b>	: Stable under recommended storage conditions.
<b>Chemical stability</b>	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Possibility of hazardous reactions</b>	
<b>Hazardous reactions</b>	: Hazardous reactions: Vapors may form explosive mixture with air.
<b>Conditions to avoid</b>	: Heat, flames and sparks.
<b>Other data</b>	: No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

<b>Pyrolysis Gasoline Blend Acute oral toxicity</b>	: LD50 Oral: 369.99 mg/kg Species: Rat Method: Acute toxicity estimate
<b>Pyrolysis Gasoline Blend Acute inhalation toxicity</b>	: LC50: 1.23 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist Method: Acute toxicity estimate
<b>Pyrolysis Gasoline Blend Acute dermal toxicity</b>	: LD50 Dermal: > 5,000 mg/kg Species: Rabbit Method: Acute toxicity estimate
<b>Pyrolysis Gasoline Blend Skin irritation</b>	: May cause skin irritation in susceptible persons.
<b>Pyrolysis Gasoline Blend Eye irritation</b>	: May irritate eyes.
<b>Pyrolysis Gasoline Blend Sensitization</b>	: No data available.
<b>Pyrolysis Gasoline Blend Repeated dose toxicity</b>	: No data available

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<b>Pyrolysis Gasoline Blend Genotoxicity in vitro</b>	: Remarks: No data available
<b>Pyrolysis Gasoline Blend Genotoxicity in vivo</b>	: Remarks: No data available
<b>Pyrolysis Gasoline Blend Carcinogenicity</b>	: Method: Estimated based on individual component values. Remarks: May cause cancer.
<b>Pyrolysis Gasoline Blend Reproductive toxicity</b>	: This information is not available.
<b>Pyrolysis Gasoline Blend Developmental Toxicity</b>	: This information is not available.
<b>Pyrolysis Gasoline Blend Aspiration toxicity Toxicology Assessment</b>	: May be fatal if swallowed and enters airways.
<b>Pyrolysis Gasoline Blend CMR effects</b>	: Carcinogenicity: May cause cancer. Mutagenicity: May cause genetic defects. Teratogenicity: Suspected of damaging the unborn child.
<b>Pyrolysis Gasoline Blend Further information</b>	: 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****Ecotoxicity effects**

<b>Toxicity to fish</b>	: Toxic to fish. Estimated based on individual component values.
<b>Toxicity to daphnia and other aquatic invertebrates</b>	: Toxic to aquatic organisms. Estimated based on individual component values.
<b>Toxicity to algae</b>	: Estimated based on individual component values. Toxic to aquatic organisms.
<b>M-Factor cyclohexane</b>	: M-Factor (Acute Aquat. Tox.) 1

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**M-Factor**

hydrogen sulphide

M-Factor (Chron. Aquat. Tox.)

1

**Toxicity to bacteria**

Styrene

: EC10: 0.28 mg/l  
Exposure time: 96 h  
Growth rate  
Species: Skeletonema costatum (Marine Algae)  
Test substance: yes

**Toxicity to fish (Chronic toxicity)**

n-Pentane

: EL10: 2.03 mg/l  
Exposure time: 60 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: QSAR modeled data  
The value is given based on a SAR/AAR approach using  
OECD Toolbox, DEREK, VEGA QSAR models (CAESAR  
models), etc.

Isopentane

EL10: 6.57 mg/l  
Exposure time: 60 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: QSAR modeled data  
The value is given based on a SAR/AAR approach using  
OECD Toolbox, DEREK, VEGA QSAR models (CAESAR  
models), etc.

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**

n-Pentane

: EL10: 3.54 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
The value is given based on a SAR/AAR approach using  
OECD Toolbox, DEREK, VEGA QSAR models (CAESAR  
models), etc.

Styrene

: NOEC: 1.01 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
semi-static test  
Test substance: yes  
Method: OECD Test Guideline 211

Isopentane

: EL10: 11.5 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
The value is given based on a SAR/AAR approach using  
OECD Toolbox, DEREK, VEGA QSAR models (CAESAR  
models), etc.

Ethylbenzene

: NOEC: 1 mg/l  
Exposure time: 7 d

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Species: Daphnia pulex (Water flea)  
semi-static test  
Analytical monitoring: yes

Biodegradability : No data available

Elimination information (persistence and degradability)

Bioaccumulation : No data available

Mobility : No data available

Results of PBT assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic 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



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bill of lading.

- US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**  
UN1268, PETROLEUM PRODUCTS, N.O.S., 3, I, MARINE POLLUTANT, (N-HEXANE, NAPHTHALENE)
- IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**  
UN1268, PETROLEUM PRODUCTS, N.O.S., 3, I, (-10 °C c.c.), MARINE POLLUTANT, (HYDROCARBONS, ETHYLENE-MANUF.-BY-PRODUCT DISTN. RESIDUES, N-HEXANE)
- IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**  
UN1268, PETROLEUM PRODUCTS, N.O.S., 3, I
- ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**  
UN1268, PETROLEUM PRODUCTS, N.O.S., 3, I, (D/E), ENVIRONMENTALLY HAZARDOUS, (HYDROCARBONS, ETHYLENE-MANUF.-BY-PRODUCT DISTN. RESIDUES, N-HEXANE)
- RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**  
33,UN1268,PETROLEUM PRODUCTS, N.O.S., 3, I, ENVIRONMENTALLY HAZARDOUS, (HYDROCARBONS, ETHYLENE-MANUF.-BY-PRODUCT DISTN. RESIDUES, N-HEXANE)
- ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**  
UN1268, PETROLEUM PRODUCTS, N.O.S., 3, I, ENVIRONMENTALLY HAZARDOUS, (HYDROCARBONS, ETHYLENE-MANUF.-BY-PRODUCT DISTN. RESIDUES, N-HEXANE)

Other information	: Pyrolysis Gasoline (containing benzene), S.T.2, Cat.Y Maritime transport in bulk according to IMO instruments
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SECTION 15: Regulatory information

National legislation

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Germ cell mutagenicity  
Carcinogenicity  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)  
Aspiration hazard  
Skin corrosion or irritation  
Serious eye damage or eye irritation

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**EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW**

CERCLA Reportable  
Quantity : 14 lbs

Benzene

SARA 302 Reportable  
Quantity : Calculated RQ exceeds reasonably attainable upper limit.

Hydrogen Sulfide

SARA 302 Threshold  
Planning Quantity : This material does not contain any components with a section  
302 EHS TPQ.

SARA 304 Reportable  
Quantity : Calculated RQ exceeds reasonably attainable upper limit.

Hydrogen Sulfide 7783-06-4 100 lbs

SARA 313 Components : The following components are subject to reporting levels  
established by SARA Title III, Section 313:

: Benzene - 71-43-2  
Dicyclopentadiene - 77-73-6  
Toluene - 108-88-3  
Styrene - 100-42-5  
Ethylbenzene - 100-41-4  
Xylenes - 1330-20-7  
n-hexane - 110-54-3  
1,3-Butadiene - 106-99-0  
Isoprene - 78-79-5  
Naphthalene - 91-20-3  
Cyclohexane - 110-82-7  
Cumene - 98-82-8

**Clean Air Act**

Ozone-Depletion : This product neither contains, nor was manufactured with a Class I or  
Potential 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):

: Benzene - 71-43-2  
Toluene - 108-88-3  
Styrene - 100-42-5  
Ethylbenzene - 100-41-4  
Xylenes - 1330-20-7  
n-hexane - 110-54-3  
1,3-Butadiene - 106-99-0  
Naphthalene - 91-20-3

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental  
Release Prevention (40 CFR 68.130, Subpart F):

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: Isopentane - 78-78-4  
1,3-Butadiene - 106-99-0  
1,3-Pentadiene - 504-60-9  
Isoprene - 78-79-5  
n-Pentane - 109-66-0  
n-Butane - 106-97-8

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

: Benzene - 71-43-2  
Toluene - 108-88-3  
Styrene - 100-42-5  
Ethylbenzene - 100-41-4  
Xylenes - 1330-20-7  
Isopentane - 78-78-4  
1,3-Butadiene - 106-99-0  
Isoprene - 78-79-5  
1-Methylnaphthalene - 90-12-0  
2-Methylnaphthalene - 91-57-6  
Cyclohexane - 110-82-7  
n-Pentane - 109-66-0

**US State Regulations****Pennsylvania Right To Know**

: Hydrocarbons, ethylene-manuf.-by-product distn. residues - 68921-67-5  
Benzene - 71-43-2  
Olefins & Diolefins, C3 – C9 -  
Distillates (petroleum), steam-cracked, C5-12 fraction - 68477-53-2  
Dicyclopentadiene - 77-73-6  
Toluene - 108-88-3  
Aromatics, C7-C9 -  
Cyclopentadiene - 542-92-7  
Styrene - 100-42-5  
Ethylbenzene - 100-41-4  
Xylenes - 1330-20-7  
Paraffins & Isoparaffins C5 – C20 -  
n-hexane - 110-54-3  
Isopentane - 78-78-4  
1,3-Butadiene - 106-99-0  
Tricyclo[5.2.1.0<sup>2,6</sup>]decane - 6004-38-2  
n-Heptane - 142-82-5  
1,3-Pentadiene - 504-60-9  
Methylcyclopentane - 96-37-7  
Isoprene - 78-79-5  
Isoheptane - 31394-54-4  
Ethyltoluene - 25550-14-5  
(1R,7S)-Tricyclo[5.2.1.0<sup>2,6</sup>]decane -  
Naphthalene - 91-20-3

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Butanes -  
n-Octane - 111-65-9  
Olefins & Diolefins, C10 + -  
C4 & lighter paraffins -  
Indene - 95-13-6  
1-Methylnaphthalene - 90-12-0  
Cyclopentane - 287-92-3  
Cyclohexane - 110-82-7  
n-Pentane - 109-66-0  
2-methyl-2-butene - 513-35-9  
n-Butane - 106-97-8  
1-Hexene - 592-41-6  
Acenaphthene - 83-32-9  
Biphenyl - 92-52-4  
Fluorene - 86-73-7  
Phenanthrene - 85-01-8  
Cumene - 98-82-8  
1,2,4-Trimethylbenzene - 95-63-6

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](http://www.P65Warnings.ca.gov/food).

Benzene	71-43-2
Styrene	100-42-5
Ethylbenzene	100-41-4
1,3-Butadiene	106-99-0
Isoprene	78-79-5
Naphthalene	91-20-3
Acenaphthene	83-32-9
Fluorene	86-73-7
Phenanthrene	85-01-8
Cumene	98-82-8

WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Benzene	71-43-2
Toluene	108-88-3
n-hexane	110-54-3
1,3-Butadiene	106-99-0

Notification status

Europe REACH	: This product is in full compliance according to REACH regulation 1907/2006/EC.
United States of America (USA) TSCA	: On or in compliance with the active portion of the TSCA inventory
Canada NDSL	: This product contains one or several components listed in the Canadian NDSL.
New Zealand NZIoC	: Not in compliance with the inventory
Australia AIIC	: On the inventory, or in compliance with the inventory
Japan ISHL	: Not in compliance with the inventory

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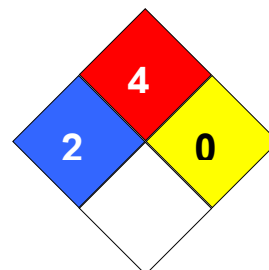
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Japan ENCS	:	Not in compliance with the inventory
Philippines PICCS	:	Not in compliance with the inventory
Korea KECI	:	Not in compliance with the inventory
China IECSC	:	Not in compliance with the inventory
Taiwan TCSI	:	Not in compliance with the inventory
Other TECI	:	Not in compliance with the inventory

**SECTION 16: Other information**

**NFPA Classification** : Health Hazard: 2  
Fire Hazard: 4  
Reactivity Hazard: 0

**Further information**

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 Scenario Tool	OSHA	Occupational Safety & Health 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	TLV	Threshold Limit Value

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	on Cancer		
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