

**DAC / RPG**

Version 2.3

Revision Date 2023-11-16

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

Product Name : DAC / RPG
 Material : 1015402, 1037604, 1037605, 1037606

Company : Chevron Phillips Chemical Company LP
 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 (Gifftlinjen): +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)
 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

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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, Eyes
 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

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.

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H336: May cause drowsiness or dizziness.
 H340: May cause genetic defects.
 H350: May cause cancer.
 H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
 H372: Causes damage to organs (Blood, Auditory organs, Eyes) 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/ 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.
 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.

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.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: 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.

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Carcinogenicity:**IARC**

Group 1: Carcinogenic to humans

Benzene 71-43-2

1,3-Butadiene 106-99-0

Group 2A: Probably carcinogenic to humans

Styrene 100-42-5

Group 2B: Possibly carcinogenic to humans

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

Synonyms : DISTILLATION, RESIDUES C5-C11
 Debutanized Aromatic Concentrate
 Aromatic Concentrate
 Aromatic Distillate
 Debutanizer Bottoms
 DAC
 Raw Pyrolysis Gasoline
 RPG
 Slop Oil
 Dripolene
 Pygas
 DeC4 Bottoms

Molecular formula : UVCB

Component	CAS-No.	Weight %
Hydrocarbons, ethylene-manuf.-by-product distn. residues	68921-67-5	100
Benzene	71-43-2	0 - 80
Dicyclopentadiene	77-73-6	0 - 30
Toluene	108-88-3	0 - 30
Xylenes	1330-20-7	0 - 10

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Ethylbenzene	100-41-4	0 - 10
Cyclopentadiene	542-92-7	0 - 15
Styrene	100-42-5	0 - 10
n-Heptane	142-82-5	0 - 5
n-hexane	110-54-3	0 - 5
Isopentane	78-78-4	0 - 5
Isoprene	78-79-5	0 - 5
1,3-Butadiene	106-99-0	0 - 5
Naphthalene	91-20-3	1 - 3
Indene	95-13-6	1 - 2
2-methyl-2-butene	513-35-9	0 - 2
cyclohexa-1,3-diene	592-57-4	0 - 2
n-Butane	106-97-8	0 - 1
Biphenyl	92-52-4	0 - 1
Phenanthrene	85-01-8	0 - 1
Cyclopentane	287-92-3	0 - 1
1-Hexene	592-41-6	0 - 1
Cumene	98-82-8	0 - 1
1,2,4-Trimethylbenzene	95-63-6	0 - 1
Acenaphthene	83-32-9	0 - 1
Fluorene	86-73-7	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 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 : -11°C (12°F)
Method: Tag closed cup
- Autoignition temperature : 348°C (658°F)
- Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical.
- Unsuitable extinguishing media : High volume water jet.

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- 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.
- Hazardous decomposition products : Carbon Dioxide. Carbon monoxide.

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). Use only explosion-proof equipment. Keep away from open flames, hot

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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	0.5 ppm,	A1, Skin,
	ACGIH	STEL	2.5 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,	
Dicyclopentadiene	OSHA CARC	PEL	1 ppm,	
	OSHA CARC	STEL	5 ppm,	
	ACGIH	TWA	0.5 ppm,	
	OSHA Z-1-A	TWA	5 ppm, 30 mg/m3	
Toluene	ACGIH	STEL	1 ppm,	
	ACGIH	TWA	0.5 ppm,	URT irr, LRT irr, eye irr,
	ACGIH	STEL	1 ppm,	
	ACGIH	TWA	20 ppm,	A4,
	OSHA Z-2	TWA	200 ppm,	
	OSHA Z-2	CEIL	300 ppm,	
	OSHA Z-2	Peak	500 ppm,	
Cyclopentadiene	OSHA Z-1-A	TWA	100 ppm, 375 mg/m3	
	OSHA Z-1-A	STEL	150 ppm, 560 mg/m3	
	ACGIH	TWA	0.5 ppm,	
	OSHA Z-1	TWA	75 ppm, 200 mg/m3	
	OSHA Z-1-A	TWA	75 ppm, 200 mg/m3	
Xylenes	ACGIH	STEL	1 ppm,	
	ACGIH	TWA	0.5 ppm,	URT irr, LRT irr, eye irr,
	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	100 ppm,	A4,
	ACGIH	STEL	150 ppm,	A4,
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,
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,
1,3-Butadiene	ACGIH	STEL	40 ppm,	OTO, A3,
	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,	
Isoprene	OSHA CARC	STEL	5 ppm,	
	OSHA 29 CFR 1910.1051(c)	STEL	5 ppm,	
	US WEEL	TWA	2 ppm,	
Isopentane	ACGIH	TWA	1,000 ppm,	

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n-hexane	ACGIH	TWA	50 ppm,	Skin,
	OSHA Z-1	TWA	500 ppm, 1,800 mg/m3	
n-Heptane	OSHA Z-1-A	TWA	50 ppm, 180 mg/m3	
	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	
Methylcyclopentane	ACGIH	TWA	400 ppm,	CNS impair, URT irr, eye irr,
	ACGIH	STEL	500 ppm,	
	ACGIH	TWA	500 ppm,	
	ACGIH	STEL	1,000 ppm,	
Naphthalene	OSHA Z-1-A	TWA	500 ppm, 1,800 mg/m3	CNS impair, URT irr, eye irr,
	OSHA Z-1-A	STEL	1,000 ppm, 3,600 mg/m3	
	ACGIH	TWA	10 ppm,	
	ACGIH	STEL	15 ppm,	
Indene	OSHA Z-1	TWA	10 ppm, 50 mg/m3	A3, Skin, hematologic eff, URT irr, eye irr, eye dam, (), A4, Skin,
	OSHA Z-1-A	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	STEL	15 ppm, 75 mg/m3	
	ACGIH	TWA	5 ppm,	
n-Butane	OSHA Z-1-A	TWA	10 ppm, 45 mg/m3	
	OSHA Z-1-A	TWA	800 ppm, 1,900 mg/m3	
Biphenyl	ACGIH	STEL	1,000 ppm,	CNS impair, EX,
	ACGIH	TWA	0.2 ppm,	
Phenanthrene	OSHA Z-1	TWA	0.2 ppm, 1 mg/m3	
	OSHA Z-1-A	TWA	0.2 ppm, 1 mg/m3	
	OSHA Z-1-A	TWA	0.2 mg/m3	
	OSHA Z-1	TWA	0.2 mg/m3	
Cyclopentane	ACGIH	TWA	600 ppm,	
	OSHA Z-1-A	TWA	600 ppm, 1,720 mg/m3	
1-Hexene	ACGIH	TWA	50 ppm,	
Cumene	ACGIH	TWA	50 ppm,	
	OSHA Z-1	TWA	50 ppm, 245 mg/m3	
1-Methylnaphthalene	OSHA Z-1-A	TWA	50 ppm, 245 mg/m3	X,
	ACGIH	TWA	0.5 ppm,	
2-Methylnaphthalene	ACGIH	TWA	0.5 ppm,	A4, Skin,
1,2,4-Trimethylbenzene	ACGIH	TWA	25 ppm,	A4, Skin,
	OSHA Z-1-A	TWA	25 ppm, 125 mg/m3	

() 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
Xylenes	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	2017-09-01
Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 parts per million	1995-03-01

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Styrene	100-42-5	Immediately Dangerous to Life or Health Concentration Value 700 parts per million	1995-03-01
n-Heptane	142-82-5	Immediately Dangerous to Life or Health Concentration Value 750 parts per million	1995-03-01
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
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 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
Biphenyl	92-52-4	Immediately Dangerous to Life or Health Concentration Value 100 mg/m ³	1995-03-01
Phenanthrene	85-01-8	Immediately Dangerous to Life or Health Concentration Value 80 mg/m ³	2017-09-01
Cumene	98-82-8	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	1995-03-01

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
Xylenes	1330-20-7	Methylhippuric acids: 1.5 g/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2013-03-01
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
Styrene	100-42-5	Mandelic acid plus phenylglyoxylic acid: 400 mg/g Creatinine Nonspecific (Urine)	End of shift (As soon as possible after exposure ceases)	2016-03-01
		Styrene: 40 µg/l (Urine)	End of shift (As soon as possible after exposure ceases)	2016-03-01
n-hexane	110-54-3	2,5-Hexanedione: 0.5 mg/l Without hydrolysis (Urine)	End of shift	2020-02-01

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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
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

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	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	: Amber
Odor Threshold	: No data available

Safety data

Flash point	: -11°C (12°F) Method: Tag closed cup
Lower explosion limit	: 1.3 %(V)
Upper explosion limit	: 7.5 %(V)
Oxidizing properties	: No
Autoignition temperature	: 348°C (658°F)
Molecular formula	: UVCB
Molecular weight	: Not applicable
pH	: Not applicable
Pour point	: No data available
Freezing point	: -62°C (-80°F)
Boiling point/boiling range	: 32-248.9°C (90-480.0°F) Overpoint-Endpoint
Vapor pressure	: 11.00 PSI at 38°C (100°F)
Relative density	: 0.825

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Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: 0.9 cSt at 40°C (104°F)
Relative vapor density	: 2.8 (Air = 1.0)
Evaporation rate	: 3.9
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 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 products	: Carbon Dioxide Carbon monoxide
Other data	: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

DAC / RPG Acute oral toxicity	: LD50 Oral: 495.8 mg/kg Species: Rat Method: Acute toxicity estimate
DAC / RPG Acute inhalation toxicity	: LC50: 1.49 mg/l

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Exposure time: 4 h
 Species: Rat
 Test atmosphere: dust/mist
 Method: Acute toxicity estimate

DAC / RPG**Acute dermal toxicity**

: LD50 Dermal: > 2,000 mg/kg
 Species: Rabbit
 Method: Acute toxicity estimate

DAC / RPG**Skin irritation**

: Irritating to skin.

May cause skin irritation in susceptible persons.

DAC / RPG**Eye irritation**

: Eye irritation
 May irritate eyes.
 May cause irreversible eye damage.

DAC / RPG**Sensitization**

: No adverse effects expected. Estimated based on individual component values.

DAC / RPG**Repeated dose toxicity**

: This information is not available.

Genotoxicity in vitro

Benzene

: Test Type: Ames test
 Result: negative

Test Type: Cytogenetic assay
 Result: positive

Test Type: Mouse lymphoma assay
 Result: positive

Test Type: Sister Chromatid Exchange Assay
 Result: negative

Dicyclopentadiene

Test Type: Ames test
 Result: negative

Test Type: Chromosome aberration test in vitro
 Result: negative

Toluene

Test Type: Ames test
 Result: negative

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	Test Type: Sister Chromatid Exchange Assay Result: negative
	Test Type: Mouse lymphoma assay Result: negative
	Test Type: Cytogenetic assay Result: negative
Xylenes	Test Type: Ames test Result: negative
	Test Type: Mouse lymphoma assay Result: negative
Ethylbenzene	Test Type: Ames test Result: negative
	Test Type: Unscheduled DNA synthesis assay Result: negative
Styrene	Test Type: Ames test Result: negative
	Test Type: Cytogenetic assay Result: positive
	Test Type: Reverse mutation assay Result: negative
	Test Type: Mouse lymphoma assay Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: positive
	Test Type: Mammalian cell gene mutation assay Result: negative
n-Heptane	Test Type: Ames test Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mammalian cell gene mutation assay Method: OECD Guideline 476 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative
	Test Type: Mitotic recombination Result: negative
n-hexane	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

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	<p>Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative</p> <p>Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: Positive results were obtained in some in vitro tests.</p>
Isopentane	<p>Test Type: Ames test Concentration: 1, 2, 5, 8, 10% Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative</p> <p>Test Type: Ames test Concentration: 1, 2, 5, 8, 10, 25, 50% Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: Information given is based on data obtained from similar substances.</p> <p>Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative Remarks: Information given is based on data obtained from similar substances.</p> <p>Test Type: In vitro mammalian cell gene mutation test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Remarks: Information given is based on data obtained from similar substances.</p>
Isoprene	<p>Test Type: Ames test Result: negative</p> <p>Test Type: Sister Chromatid Exchange Assay Result: positive</p>
1,3-Butadiene	<p>Test Type: Ames test Metabolic activation: with and without metabolic activation Result: Positive results were obtained in some in vitro tests.</p> <p>Test Type: Chromosome aberration test in vitro Test system: Chinese hamster cells Method: OECD Guideline 473 Result: positive</p>
Naphthalene	<p>Test Type: Ames test Result: negative</p>

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	<p>Test Type: Sister Chromatid Exchange Assay Result: negative</p> <p>Test Type: Unscheduled DNA synthesis assay Result: negative</p>
2-methyl-2-butene	<p>Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative</p> <p>Method: OECD Test Guideline 480 Result: negative</p>
n-Butane	<p>Test Type: Ames test Result: negative</p>
Cyclopentane	<p>Test Type: Modified Ames test Concentration: 1250 microgram/plate Metabolic activation: with and without metabolic activation Result: negative</p> <p>Test Type: Mouse lymphoma assay Concentration: 200 microgram/mililiter Metabolic activation: with and without metabolic activation Result: negative</p>
1-Hexene	<p>Test Type: Ames test Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative</p> <p>Test Type: Unscheduled DNA synthesis assay Result: negative</p> <p>Test Type: Mouse lymphoma assay Result: negative</p> <p>Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative</p>
Cumene	<p>Test Type: Ames test Result: negative</p> <p>Test Type: Cytogenetic assay Result: negative</p> <p>Test Type: HGPRT assay Result: negative</p> <p>Test Type: Unscheduled DNA synthesis assay Result: negative</p>
Genotoxicity in vivo	
Benzene	: Test Type: Mouse micronucleus assay Result: positive

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Toluene	<p>Test Type: Cytogenetic assay Result: negative</p> <p>Test Type: Mouse micronucleus assay Result: negative</p>
Xylenes	<p>Test Type: Mouse micronucleus assay Result: negative</p>
Ethylbenzene	<p>Test Type: Mouse micronucleus assay Species: Mouse Result: negative</p>
Styrene	<p>Remarks: No significant adverse effects were reported</p>
n-hexane	<p>Test Type: Dominant lethal assay Species: Mouse Dose: 100 and 400 ppm Result: negative</p> <p>Test Type: Cytogenetic assay Species: Rat Dose: 900, 3000, 9000 ppm Result: negative</p>
Isopentane	<p>Test Type: In vivo micronucleus test Species: Rat Cell type: Bone marrow Route of Application: inhalation (vapor) Exposure time: 13 wk Dose: 5000, 10,000, 20,000 mg/m³ Method: Directive 67/548/EEC, Annex V, B.12. Remarks: Information given is based on data obtained from similar substances.</p>
Isoprene	<p>Result: negative</p> <p>Test Type: Micronucleus test Result: positive</p>
1,3-Butadiene	<p>Test Type: Mouse micronucleus assay Species: mice Route of Application: inhalation (gas) Exposure time: 6 h per day for 5 days Dose: 50, 200, 500, 1300 ppm Method: OECD Test Guideline 474 Result: positive</p> <p>Test Type: Dominant lethal assay Species: mice Method: OECD Test Guideline 478 Result: Positive results were obtained in some in vivo tests.</p>
Naphthalene	<p>Test Type: Mouse micronucleus assay Result: negative</p>
2-methyl-2-butene	<p>Test Type: Mouse micronucleus assay Species: Rat Cell type: Bone marrow</p>

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	Route of Application: Inhalation Exposure time: 6 h/d 2d Method: OECD Test Guideline 474 Result: positive
Cyclopentane	Test Type: Micronucleus test Species: Mouse Route of Application: inhalation (vapor) Dose: 10,000 ppm Result: negative
1-Hexene	Test Type: Mouse micronucleus assay Species: Mouse Method: Mutagenicity (micronucleus test) Result: negative
Cumene	Test Type: Mouse micronucleus assay Result: negative
DAC / RPG Carcinogenicity	: Remarks: Suspect cancer hazard
DAC / RPG Reproductive toxicity	: This information is not available.
DAC / RPG Developmental Toxicity	: This information is not available.
DAC / RPG 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.
Toxicology Assessment	
DAC / RPG CMR effects	: Carcinogenicity: May cause cancer. Mutagenicity: May cause genetic defects. Teratogenicity: Suspected of damaging the unborn child. Reproductive toxicity: Suspected of damaging fertility.
DAC / RPG 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.

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SECTION 12: Ecological information**Ecotoxicity effects**

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

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-Heptane : NOELR: 1.284 mg/l
 Exposure time: 28 d
 Species: Oncorhynchus mykiss (rainbow trout)
 Method: QSAR modeled data

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Ethylbenzene : NOEC: 1 mg/l
 Exposure time: 7 d
 Species: Daphnia pulex (Water flea)
 semi-static test
 Analytical monitoring: yes

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

Biodegradability : This material is volatile and is expected to partition to air.

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.

Mobility

Benzene : No data available

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Toluene	: Not expected to adsorb on soil.
Ethylbenzene	: Method: Calculation, Mackay Level I Fugacity Model Disperses rapidly in air.
n-Heptane	: Medium: Air Method: Calculation, Mackay Level I Fugacity Model Content: 100 % After release, disperses into the air.
n-hexane	: Method: Calculation, Mackay Level III Fugacity Model The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
Isopentane	: No data available
cyclohexa-1,3-diene	: No data available
n-Butane	: The product evaporates readily.
Cyclopentane	: No data available
1-Hexene	: 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., Very toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Very 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.

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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)

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, I, MARINE POLLUTANT, (N-HEPTANE, N-HEXANE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, I, (-11 °C c.c.), MARINE POLLUTANT, (HYDROCARBONS, ETHYLENE-MANUF.-BY-PRODUCT DISTN. RESIDUES)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1268, PETROLEUM DISTILLATES, 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)

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)

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)

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation

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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

CERCLA Reportable Quantity : 12 lbs
 Benzene

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:

: Benzene - 71-43-2
 Dicyclopentadiene - 77-73-6
 Toluene - 108-88-3
 Xylenes - 1330-20-7
 Ethylbenzene - 100-41-4
 Styrene - 100-42-5
 n-hexane - 110-54-3
 Isoprene - 78-79-5
 1,3-Butadiene - 106-99-0
 Naphthalene - 91-20-3
 Biphenyl - 92-52-4
 Phenanthrene - 85-01-8
 Cumene - 98-82-8
 1,2,4-Trimethylbenzene - 95-63-6

Clean Air Act

Ozone-Depletion Potential : 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):

: Benzene - 71-43-2
 Toluene - 108-88-3
 Xylenes - 1330-20-7
 Ethylbenzene - 100-41-4

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Styrene - 100-42-5
 n-hexane - 110-54-3
 1,3-Butadiene - 106-99-0
 Naphthalene - 91-20-3
 Acenaphthene - 83-32-9
 Biphenyl - 92-52-4
 Fluorene - 86-73-7
 Phenanthrene - 85-01-8
 Cumene - 98-82-8

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):

: 1,3-Pentadiene - 504-60-9
 Isopentane - 78-78-4
 Isoprene - 78-79-5
 1,3-Butadiene - 106-99-0
 n-Butane - 106-97-8
 cis-2-Pentene - 627-20-3
 trans-2-Pentene - 646-04-8
 3-Methyl-1-Butene - 563-45-1
 2-methyl-1-butene - 563-46-2

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

: Benzene - 71-43-2
 Toluene - 108-88-3
 Xylenes - 1330-20-7
 Ethylbenzene - 100-41-4
 Styrene - 100-42-5
 Isopentane - 78-78-4
 Isoprene - 78-79-5
 1,3-Butadiene - 106-99-0
 Biphenyl - 92-52-4
 Cumene - 98-82-8
 1-Methylnaphthalene - 90-12-0
 2-Methylnaphthalene - 91-57-6
 1-ethylnaphthalene - 1127-76-0

US State Regulations

Pennsylvania Right To Know

: Hydrocarbons, ethylene-manuf.-by-product distn. residues - 68921-67-5
 Benzene - 71-43-2
 Dicyclopentadiene - 77-73-6
 Toluene - 108-88-3
 Cyclopentadiene - 542-92-7
 Xylenes - 1330-20-7
 Ethylbenzene - 100-41-4
 Styrene - 100-42-5
 1,3-Pentadiene - 504-60-9

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Methylcyclopentane - 96-37-7
 n-Heptane - 142-82-5
 n-hexane - 110-54-3
 Isopentane - 78-78-4
 Isoprene - 78-79-5
 1,3-Butadiene - 106-99-0
 Ethyltoluene - 25550-14-5
 (1R,7S)-Tricyclo[5.2.1.0^{2,6}]decane -
 Naphthalene - 91-20-3
 2-methyl-2-butene - 513-35-9
 Indene - 95-13-6
 n-Butane - 106-97-8
 Acenaphthene - 83-32-9
 Biphenyl - 92-52-4
 Fluorene - 86-73-7
 Phenanthrene - 85-01-8
 Cyclopentane - 287-92-3
 1-Hexene - 592-41-6
 cis-2-Pentene - 627-20-3
 trans-2-Pentene - 646-04-8
 3-Methyl-1-Butene - 563-45-1
 2-methyl-1-butene - 563-46-2
 Cumene - 98-82-8
 1-Methylnaphthalene - 90-12-0
 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.

Benzene	71-43-2
Ethylbenzene	100-41-4
Styrene	100-42-5
Isoprene	78-79-5
1,3-Butadiene	106-99-0
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.

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

Notification status

Switzerland CH INV

: Not in compliance with the inventory

United States of America (USA)

: On or in compliance with the active portion of the

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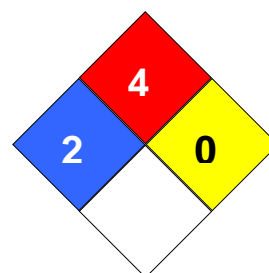
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TSCA	TSCA inventory
Canada DSL	: Not in compliance with the inventory
Australia AIIC	: Not in compliance with the inventory
New Zealand NZIoC	: Not in compliance with the inventory
Japan ENCS	: Not in compliance with the inventory
Korea KECI	: Not in compliance with the inventory
Philippines PICCS	: Not in compliance with the inventory
Taiwan TCSI	: Not in compliance with the inventory
China IECSC	: Not in compliance with the inventory

SECTION 16: Other information

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

**Further information**

Legacy SDS Number : PE0097

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	PRNT	Presumed Not Toxic

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	Values		
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