### SAFETY DATA SHEET

# Chevron Phillips CHEMICAL

## Octane Test Fuel

Version 4.2

Revision Date 2022-10-24

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

Use	: Fuel	
Company	: Chevron Phillips Cher Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 7	9
Asia: CHEMWATCH Mexico CHEMTREC South America SOS- Argentina: +(54)-115 EUROPE: BIG +32.1 Austria: VIZ +43 1 40 Belgium: 070 245 24 Bulgaria: +359 2 915 Croatia: +3851 2348 Cyprus: 1401 Czech Republic: Tox Denmark: Danish Po Estonia: BIG +32.14. Finland: 0800 147 11 France: ORFILA nun Germany: BIG +32.1	9839431 4.584545 (phone) or +32.14583 6 43 43 (24 hours/day, 7 days/v 5 (24 hours/day, 7 days/week) 4 233 342 (24 hours/day, 7 days/wee cological Information Center +4 son Center (Giftlinjen): +45 82 584545 (phone) or +32.145835 1 09 471 977 (24 hours/day)	767 Outside Brazil: +55.19.3467.1600 3516 (telefax) week) 420 224 919 293, +420 224 915 402 12 1212 516 (telefax) 9 59 (24 hours/day, 7 days/week) 3516 (telefax) week)

#### Version 4.2

Revision Date 2022-10-24 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 : Product Safety and Toxicology Group Responsible Department 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 Skin irritation, Category 2 Germ cell mutagenicity, Category 1B Carcinogenicity, Category 1A Reproductive toxicity, Category 2 Specific target organ toxicity - single exposure, Category 3, Central nervous system Specific target organ toxicity - repeated exposure, Category 2, Inhalation, Auditory organs, color vision Aspiration hazard, Category 1 Labeling Symbol(s)

Signal Word

Danger

H	azard Statements	<ul> <li>H224: Extremely flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H336: May cause drowsiness or dizziness. H340: May cause genetic defects. H350: May cause cancer. H361: Suspected of damaging fertility or the unborn child. H373: May cause damage to organs (Auditory organs, color)</li> </ul>
SDS N	umber:100000014062	

:

vision) through prolonged	Revision Date 2022-10		
vision) through prolonged	Revision Date 2022-10		
vision) through prolonged			
	or repeated exposure if inhaled.		
: Prevention:			
P201 Obtain special instru P202 Do not handle until a	all safety precautions have been		
read and understood.	an salety precations have been		
	at/ sparks/ open flames/ hot		
	by closed		
	ner and receiving equipment.		
P241 Use explosion-proof	electrical/ventilating/lighting/		
	measures against static discharge.		
P260 Do not breathe dust	/ fume/ gas/ mist/ vapors/ spray.		
	ves/ protective clothing/ eye		
P301 + P310 IF SWALLO	WED: Immediately call a POISON		
	ON SKIN (or hair): Take off		
	d clothing. Rinse skin with water/		
shower.	Ū.		
•	or concerned: Get medical advice/		
P362 Take off contaminated clothing and wash before reuse.			
	re: Use dry sand, dry chemical or		
	inguish.		
	ell-ventilated place. Keep container		
tightly closed.			
	ell-ventilated place. Keep cool.		
	/ container to an approved waste		
disposal plant.			
Group 1: Carcinogenic to hum			
Benzene	71-43-2		
, , ,			
Catalytic Cracked	64741-54-4		
catalytic reformed	64741-63-5		
	68476-46-0		
Naphtha (petroleum), light	64741-66-8		
Ethylbenzene	100-41-4		
Naphthalene	91-20-3		
Isoprene	78-79-5		
Cumene	98-82-8		
Known to be human carcinoge	en		
	<ul> <li>P210 Keep away from heas surfaces. No smoking.</li> <li>P233 Keep container tight</li> <li>P240 Ground/bond contai</li> <li>P241 Use explosion-prood equipment.</li> <li>P242 Use only non-sparkit</li> <li>P243 Take precautionary</li> <li>P260 Do not breathe dust</li> <li>P264 Wash skin thorough</li> <li>P280 Wear protective glov protection/ face protection.</li> <li><b>Response:</b></li> <li>P301 + P310 IF SWALLC CENTER/ doctor.</li> <li>P303 + P361 + P353 IF C immediately all contaminate shower.</li> <li>P308 + P313 IF exposed attention.</li> <li>P331 Do NOT induce vom</li> <li>P362 Take off contaminate shower.</li> <li>P308 + P378 In case of fi alcohol-resistant foam to exit Storage:</li> <li>P403 + P233 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P235 Store in a w tightly closed.</li> <li>P403 + P236 H P334 H P344 H P3</li></ul>		

tane Test Fuel					
sion 4.2				Revision E	Date 2022-1
	Benzene		71-43-2		
	Reasona	bly anticipated to b	e a human c	arcinogen	
	Naphthal	ene	91-20-3		
	Isoprene		78-79-5		
	Cumene		98-82-8		
TION 3: Composition/informa	ation on ir	ngredients			
Synonyms :	Octane	Test Fuel UP-14S			
Synonyms .		Test Fuel UR-13S			
	Octane	Test Fuel Euro 20	00		
		nce Fuel			
	Delphi				
		Test Gasoline / Test Gasoline			
		Test Fuel			
		Gas- Premium			
		Test Fuel (Ron 85	5)		
		Test Fuel UP-14W			
		Test Fuel UR-13W	V		
	Delphi :	53B Knock Fuel			
		-2-008-B			
		2005-B			
	0				
	GMPT-	-6-010-A			
Molecular formula	Gasolir	6-010-A ne Euro IV			
Molecular formula :		6-010-A ne Euro IV			
Component	Gasolir Mixture	6-010-A ne Euro IV cAS-No.	Weig		
Component Hydrocarbons, C3-11, catalytic	Gasolir Mixture	6-010-A ne Euro IV	Weig 0 - 10		
Component Hydrocarbons, C3-11, catalytic distillates	Gasolir Mixture c cracker	6-010-A ne Euro IV CAS-No. 68476-46-0	0 - 10	00	
Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata	Gasolir Mixture c cracker	6-010-A ne Euro IV cAS-No.		00	
Component Hydrocarbons, C3-11, catalytic distillates	Gasolir Mixture c cracker alytic	6-010-A ne Euro IV CAS-No. 68476-46-0	0 - 10	00	
Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed	Gasolir Mixture c cracker alytic tane)	6-010-A ne Euro IV CAS-No. 68476-46-0 64741-63-5	0 - 10	00	
Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed 2,2,4-Trimethylpentane (Isooct Naphtha (petroleum), light alky Isopentane	Gasolir Mixture c cracker alytic tane)	6-010-A he Euro IV CAS-No. 68476-46-0 64741-63-5 540-84-1 64741-66-8 78-78-4	0 - 10 0 - 10 0 - 70 0 - 50 0 - 30	00 00 0 0 0	
Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed 2,2,4-Trimethylpentane (Isooct Naphtha (petroleum), light alky Isopentane C9-C11 Isoalkanes	Gasolir Mixture c cracker alytic tane)	6-010-A he Euro IV CAS-No. 68476-46-0 64741-63-5 540-84-1 64741-66-8 78-78-4 68551-16-6	0 - 10 0 - 10 0 - 70 0 - 50 0 - 30 0 - 20	00 00 0 0 0 0	
Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed 2,2,4-Trimethylpentane (Isooct Naphtha (petroleum), light alky Isopentane C9-C11 Isoalkanes Isoalkanes C7-8	Gasolir Mixture c cracker alytic tane) /late	6-010-A he Euro IV CAS-No. 68476-46-0 64741-63-5 540-84-1 64741-66-8 78-78-4 68551-16-6 70024-92-9	0 - 10 0 - 10 0 - 70 0 - 50 0 - 30 0 - 20 0 - 20	00 00 0 0 0 0 0	
Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed 2,2,4-Trimethylpentane (Isooct Naphtha (petroleum), light alky Isopentane C9-C11 Isoalkanes Isoalkanes C7-8 Heptane, branched, cyclic and	Gasolir Mixture c cracker alytic tane) /late	6-010-A ne Euro IV CAS-No. 68476-46-0 64741-63-5 540-84-1 64741-66-8 78-78-4 68551-16-6 70024-92-9 426260-76-6	0 - 10 0 - 10 0 - 70 0 - 50 0 - 30 0 - 20 0 - 20 0 - 20 0 - 20	00 00 0 0 0 0 0 0 0	
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Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed 2,2,4-Trimethylpentane (Isooct Naphtha (petroleum), light alky Isopentane C9-C11 Isoalkanes Isoalkanes C7-8 Heptane, branched, cyclic and Toluene n-Heptane n-Butane	Gasolir Mixture c cracker alytic tane) /late	6-010-A he Euro IV CAS-No. 68476-46-0 64741-63-5 540-84-1 64741-66-8 78-78-4 68551-16-6 70024-92-9 426260-76-6 108-88-3 142-82-5 106-97-8	0 - 10 0 - 10 0 - 70 0 - 50 0 - 30 0 - 20 0 - 20 0 - 20 0 - 20 0 - 20 0 - 20 0 - 10	00       00       0       0       0       0       0       0       0       0       0       0       0	
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Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed 2,2,4-Trimethylpentane (Isooct Naphtha (petroleum), light alky Isopentane C9-C11 Isoalkanes Isoalkanes C7-8 Heptane, branched, cyclic and Toluene n-Heptane n-Butane	Gasolir Mixture c cracker alytic tane) /late	6-010-A he Euro IV CAS-No. 68476-46-0 64741-63-5 540-84-1 64741-66-8 78-78-4 68551-16-6 70024-92-9 426260-76-6 108-88-3 142-82-5 106-97-8	0 - 10 0 - 10 0 - 70 0 - 50 0 - 30 0 - 20 0 - 20 0 - 20 0 - 20 0 - 20 0 - 20 0 - 10 0 - 10 0 - 10	00       00       0       0       0       0       0       0       0       0       0       0       0       0       0	
Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed 2,2,4-Trimethylpentane (Isooct Naphtha (petroleum), light alky Isopentane C9-C11 Isoalkanes Isoalkanes C7-8 Heptane, branched, cyclic and Toluene n-Heptane n-Butane 1-Hexene Cyclopentane	Gasolir Mixture c cracker alytic tane) /late	6-010-A he Euro IV CAS-No. 68476-46-0 64741-63-5 540-84-1 64741-66-8 78-78-4 68551-16-6 70024-92-9 426260-76-6 108-88-3 142-82-5 106-97-8 592-41-6 287-92-3	$\begin{array}{c} 0 - 10 \\ 0 - 10 \\ 0 - 10 \\ 0 - 70 \\ 0 - 50 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 1$	00       00       0       0       0       0       0       0       0       0       0       0       0       0       0	
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Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed 2,2,4-Trimethylpentane (Isooct Naphtha (petroleum), light alky Isopentane C9-C11 Isoalkanes Isoalkanes C7-8 Heptane, branched, cyclic and Toluene n-Heptane n-Butane 1-Hexene Cyclopentane 2,2-Dimethylbutane Cyclohexane 3,3-Dimethylpentane 2,3-Dimethylpentane n-hexane Xylenes Ethylbenzene	Gasolir Mixture c cracker alytic tane) /late	6-010-A he Euro IV 64741-63-5 64741-63-5 540-84-1 64741-66-8 78-78-4 68551-16-6 70024-92-9 426260-76-6 108-88-3 142-82-5 106-97-8 592-41-6 287-92-3 75-83-2 110-82-7 562-49-2 565-59-3 110-54-3 1330-20-7 100-41-4	$\begin{array}{c} 0 - 10 \\ 0 - 10 \\ 0 - 10 \\ 0 - 70 \\ 0 - 50 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 10 \\ 0 - 10 \\ 0 - 10 \\ 0 - 10 \\ 0 - 5 \\ 0 - 5 \\ 0 - 5 \\ 0 - 5 \\ 0 - 5 \\ 0 - 5 \\ 0 - 10 \\ 0 - 7 \\ \end{array}$	00       00       0	
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Component Hydrocarbons, C3-11, catalytic distillates Naphtha (petroleum), light cata reformed 2,2,4-Trimethylpentane (Isooct Naphtha (petroleum), light alky Isopentane C9-C11 Isoalkanes Isoalkanes C7-8 Heptane, branched, cyclic and Toluene n-Heptane n-Butane 1-Hexene Cyclopentane 2,2-Dimethylbutane Cyclohexane 3,3-Dimethylpentane 2,3-Dimethylpentane n-hexane Xylenes Ethylbenzene 2,4-Dimethylpentane 1,2,4-Trimethylbenzene	Gasolir Mixture c cracker alytic tane) /late	6-010-A he Euro IV CAS-No. 68476-46-0 64741-63-5 540-84-1 64741-66-8 78-78-4 68551-16-6 70024-92-9 426260-76-6 108-88-3 142-82-5 106-97-8 592-41-6 287-92-3 75-83-2 110-82-7 562-49-2 565-59-3 110-54-3 1330-20-7 100-41-4 108-08-7 95-63-6	$\begin{array}{c} 0 - 10 \\ 0 - 10 \\ 0 - 10 \\ 0 - 70 \\ 0 - 50 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 20 \\ 0 - 10 \\ 0 - 10 \\ 0 - 10 \\ 0 - 10 \\ 0 - 5 \\ 0 - 5 \\ 0 - 5 \\ 0 - 5 \\ 0 - 5 \\ 0 - 5 \\ 0 - 10 \\ 0 - 7 \\ 0 - 5 \\ 0 - 10 \\ 0 - 7 \\ 0 - 5 \\ 0 - 10$	00       00       0	
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#### SAFETY DATA SHEET

Version 4.2

Revision Date 2022-10-24

Hydrogen Sulfide	7783-06-4	0 - 1	
Benzene	71-43-2	0 - 5	
Naphthalene	91-20-3	0 - 5	
n-Pentane	109-66-0	0 - 5	
Methylcyclohexane	108-87-2	0 - 5	
Cumene	98-82-8	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	:	Flush eyes with water as a precaution. 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

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Fire and explosion	:	Do not spray on a naked flame or any incandescent material.
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.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Unsuitable extinguishing media	:	High volume water jet.
Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Autoignition temperature	:	No data available
Flash point	:	-37°C (-35°F) Method: Tag closed cup

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protection		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 oxides.
ECTION 6: Accidental release	me	asures
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).
ECTION 7: Handling and stora	ge	
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 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.
Use	:	Fuel
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### SECTION 8: Exposure controls/personal protection

#### Ingredients with workplace control parameters

#### Chevron Phillips Chemical Company LP

Components	Basis	Value	Control parameters	Note
C9-C11 Isoalkanes	Manufacturer	TWA	1,200 mg/m3	RCP,
Isoalkanes C7-8 RCP Reciprocal Calculation Proc	Manufacturer	TWA	300 ppm,	
·	equie			
S				
Components	Basis	Value	Control parameters	Note
Naphtha, Petroleum, Heavy Catalytic	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
Cracked	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	
Naphtha (petroleum), light catalytic			··· · · · · · · · · · · · · · · · · ·	
reformed	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	
Hydrocarbons, C3-11, catalytic cracker distillates	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
2,2,4-Trimethylpentane (Isooctane)	ACGIH	TWA	300 ppm,	
Toluene	ACGIH	TWA	20 ppm,	A4,
	OSHA Z-2	TWA	200 ppm,	
	OSHA Z-2 OSHA Z-2	CEIL Peak	300 ppm, 500 ppm,	
	OSHA Z-2 OSHA Z-1-A	TWA	100 ppm, 375 mg/m3	
	OSHA Z-1-A	STEL	150 ppm, 560 mg/m3	1
Naphtha (petroleum), light alkylate	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	
3,3-Dimethylpentane	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	
Xylenes	OSHA Z-1	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A OSHA Z-1-A	STEL TWA	150 ppm, 655 mg/m3 100 ppm, 435 mg/m3	
	ACGIH	TWA	100 ppm, 433 mg/m3	A4,
	ACGIH	STEL	150 ppm,	A4,
Isopentane	ACGIH	TWA	1,000 ppm,	,
Heptane, branched, cyclic and linear	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	
n-hexane	ACGIH	TWA	50 ppm,	Skin,
	OSHA Z-1	TWA	500 ppm, 1,800 mg/m3	
1.0.4 Trimethylbergene	OSHA Z-1-A	TWA TWA	50 ppm, 180 mg/m3	
1,2,4-Trimethylbenzene	ACGIH OSHA Z-1-A	TWA	25 ppm, 25 ppm, 125 mg/m3	
n-Heptane	OSHA Z-1-A	TWA	500 ppm, 2,000 mg/m3	
Theplane	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,	
Ethylbenzene	OSHA Z-1	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A OSHA Z-1-A	TWA STEL	100 ppm, 435 mg/m3 125 ppm, 545 mg/m3	
	ACGIH	TWA	20 ppm,	A3,
n-Butane	OSHA Z-1-A	TWA	800 ppm, 1,900 mg/m3	,
	ACGIH	STEL	1,000 ppm,	CNS impair, EX,
1-Hexene	ACGIH	TWA	50 ppm,	
Cyclopentane	ACGIH	TWA	600 ppm,	
	OSHA Z-1-A	TWA	600 ppm, 1,720 mg/m3	
2-Methylpentane	ACGIH	TWA	500 ppm,	
	ACGIH	STEL	1,000 ppm,	
	OSHA Z-1-A OSHA Z-1-A	TWA STEL	500 ppm, 1,800 mg/m3 1,000 ppm, 3,600 mg/m3	+
Benzene	ACGIH	TWA	0.5 ppm,	A1, Skin,
Donzono	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,	
	OSHA CARC	PEL	1 ppm,	
	OSHA CARC ACGIH	STEL TWA	5 ppm,	
Naphthalene			10 ppm,	A3, Skin,

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	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	
O Mathada antara	OSHA Z-1-A	STEL	15 ppm, 75 mg/m3	
3-Methylpentane	ACGIH	TWA	500 ppm,	
	ACGIH	STEL	1,000 ppm,	
	OSHA Z-1-A OSHA Z-1-A	TWA STEL	500 ppm, 1,800 mg/m3 1,000 ppm, 3,600 mg/m3	
2-Methylhexane	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	
2,2-Dimethylbutane	ACGIH	TWA	500 ppm,	
2,2 Billioniyibadano	ACGIH	STEL	1,000 ppm,	
	OSHA Z-1-A	TWA	500 ppm, 1,800 mg/m3	
	OSHA Z-1-A	STEL	1,000 ppm, 3,600 mg/m3	
Methylcyclopentane	ACGIH	TWA	500 ppm,	CNS impair, URT irr, eye irr,
	ACGIH	STEL	1,000 ppm,	CNS impair, URT irr,
	OSHA Z-1-A	TWA	500 ppm, 1,800 mg/m3	eye irr,
	OSHA Z-1-A	STEL	1,000 ppm, 1,800 mg/m3	
3-Methylhexane	ACGIH	TWA	400 ppm,	
o morrymozano	ACGIH	STEL	500 ppm,	
Cyclohexane	ACGIH	TWA	100 ppm,	
- joiononano	OSHA Z-1	TWA	300 ppm, 1,050 mg/m3	
	OSHA Z-1-A	TWA	300 ppm, 1,050 mg/m3	1
2,3-Dimethylbutane	ACGIH	TWA	500 ppm,	
	ACGIH	STEL	1,000 ppm,	
	OSHA Z-1-A	TWA	500 ppm, 1,800 mg/m3	
	OSHA Z-1-A	STEL	1,000 ppm, 3,600 mg/m3	
2,3-Dimethylpentane	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	
2,4-Dimethylpentane	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	
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	
Mathudaualah	ACGIH	TWA	1,000 ppm,	
Methylcyclohexane	ACGIH	TWA	400 ppm,	+
	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	
0.2.4 Trimothedrants	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
2,3,4-Trimethylpentane	ACGIH	TWA	300 ppm,	
Isoprene	US WEEL	TWA	2 ppm,	
Hydrogen Sulfide	ACGIH	TWA	1 ppm,	-
	ACGIH	STEL	5 ppm,	
	OSHA Z-2	CEIL	20 ppm,	
	OSHA Z-2 OSHA Z-1-A	Peak TWA	50 ppm, 10 ppm, 14 mg/m3	
	OSHA Z-1-A OSHA Z-1-A	STEL	15 ppm, 14 mg/m3 15 ppm, 21 mg/m3	+
Cumene	ACGIH	TWA	50 ppm,	
Guillelle	OSHA Z-1	TWA	50 ppm, 245 mg/m3	Χ,
	OSHA Z-1 OSHA Z-1-A	TWA	50 ppm, 245 mg/m3 50 ppm, 245 mg/m3	X, X,
A4 Not classifiable as a CNS impair Central Nervous Sys	arcinogen with unknown releve human carcinogen stem impairment e substance is a flammable s absorption ract irritation	asphyxiant or excur	sions above the TLV ® could approa	ch 10% of the lower
Substance name	CAS-No.		Control parameters	Update

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Toluene	108-88-3	Immediately Dangerous to Life or Health Concentration Value 500 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
n-Heptane	142-82-5	Immediately Dangerous to Life or Health Concentration Value 750 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
n-Butane	106-97-8	Immediately Dangerous to Life or Health Concentration Value 1600 parts per million	2017-02-03
Benzene	71-43-2	Immediately Dangerous to Life or Health Concentration Value 500 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
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
Methylcyclohexane	108-87-2	Immediately Dangerous to Life or Health Concentration Value 1200 parts per million	1995-03-01
Hydrogen Sulfide	7783-06-4	Immediately Dangerous to Life or Health Concentration Value 100 parts per million	1995-03-01
Cumene	98-82-8	Immediately Dangerous to Life or Health Concentration Value 900 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
Naphtha	8030-30-6	Immediately Dangerous to Life or Health Concentration Value 1000 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
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
n-Pentane	109-66-0	Immediately Dangerous to Life or Health Concentration Value 1500 parts per million	1995-03-01
m-xylene	108-38-3	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	2017-09-01
p-xylene	106-42-3	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	2017-09-01
Xylenes	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	2017-09-01
Benzene	71-43-2	Immediately Dangerous to Life or Health Concentration Value 500 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

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Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 parts per million	1995-03-01
Hydrogen Sulfide	7783-06-4	Immediately Dangerous to Life or Health Concentration Value 100 parts per million	1995-03-01

### Biological exposure indices

US

Substance name	CAS-No.	Control parameters	Sampling time	Update
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
n-hexane	110-54-3	2,5-Hexanedione: 0.5 mg/l Without hydrolysis (Urine)	End of shift	2020-02-01
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
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
m-xylene	108-38-3	Methylhippuric acids: 1.5 g/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2013-03-01
p-xylene	106-42-3	Methylhippuric acids: 1.5 g/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2013-03-01
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
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
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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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	2016-03-01	
Engineering measures			ceases)		
Consider the potential has activities, and other subs personal protective equi exposure to harmful leve recommended. The use	azards of thi stances in th oment. If er els of this ma r should rea	rned concentrations below the e is material (see Section 2), appl ne work place when designing e ngineering controls or work prace aterial, the personal protective e ad and understand all instruction sually provided for a limited time	icable exposure ngineering cont tices are not ad equipment listed as and limitation	limits, job rols and select equate to prev below is s supplied with	eי ז
Personal protective eq	uipment				
Respiratory protection	ma no res air pro Re su su kn	ventilation or other engineering of aintain minimal oxygen content of rmal atmospheric pressure, a si spirator may be appropriate. If borne material may occur, a Nic ovides protection may be appro- espirator for Organic Vapors. A pplying respirator may be appro- icontrolled release, aerosolization own, or other circumstances whay not provide adequate protect	of 19.5% by volu upplied-air NIOS exposure to harn OSH approved r priate, such as:. positive pressun ppriate if there is on, exposure lev nere air-purifying	ume under SH approved mful levels of respirator that Air-Purifying re, air- potential for els are not	
Hand protection	wit the wh co pro co	the suitability for a specific workp th the producers of the protective instructions regarding permeanich are provided by the supplier nsideration the specific local co oduct is used, such as the dang ntact time. Gloves should be di any indication of degradation or	e gloves. Pleas bility and breakt r of the gloves. / nditions under w er of cuts, abras scarded and rep	e observe hrough time Also take into vhich the sion, and the blaced if there	
Eye protection	: Еу	ve wash bottle with pure water.	Tightly fitting sa	fety goggles.	
Skin and body protectior	co sp an	noose body protection in relation ncentration and amount of dang ecific work-place. Wear as app tistatic protective clothing. Wor ptwear.	gerous substanc ropriate: Flame	es, and to the retardant	
Hygiene measures		hen using do not eat or drink. V ash hands before breaks and at			
ECTION 9: Physical and c	hemical pro	operties			
Information on basic p Appearance	-	-			
Form		quid			
Physical state	: lio	quid			
Color Odor	: C : N	lear to amber lild			
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Flash point	: -37°C (-35°F) Method: Tag closed cup
Lower explosion limit	: 1.5 %(V)
Upper explosion limit	: 7.6 %(V)
Oxidizing properties	: No
Autoignition temperature	: No data available
Molecular formula	: Mixture
Molecular weight	: Not applicable
рН	: Not applicable
Pour point	: No data available
Boiling point/boiling range	: 24-225°C (75-437°F)
Vapor pressure	: 6.00 - 15.00 PSI at 38°C (100°F)
Relative density	: 0.8 at 15.6 °C (60.1 °F)
Density	: 0.7 g/cm3
Water solubility	: Insoluble in water; miscible with most organic solvents.
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: <1.138 cSt at 38°C (100°F)
Relative vapor density	: No data available
Evaporation rate	: 2.8
Percent volatile	: >99%
CTION 10: Stability and react	ivity
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 re	actions
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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 oxides
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological info	rmation
Ontonio Trast Frank	
Octane Test Fuel Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Octane Test Fuel Acute inhalation toxicity	: Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Octane Test Fuel Acute dermal toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Octane Test Fuel Skin irritation	: Skin irritation largely based on animal evidence.
Octane Test Fuel Eye irritation	: Vapors may cause irritation to the eyes, respiratory system and the skin.
Octane Test Fuel Sensitization	: Did not cause sensitization on laboratory animals. Estimated based on individual component values.
Octane Test Fuel Repeated dose toxicity	: Target Organs: Auditory organs, Nervous system, Eyes, Blood Estimated based on individual component values.
Genotoxicity in vitro	
Hydrocarbons, C3-11, catalytic cracker distillates	: Result: May cause genetic defects. Remarks: In vitro tests showed mutagenic effects
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Naphtha (petroleum), light catalytic reformed	Test Type: Ames test Result: negative
	Test Type: Cytogenetic assay Result: negative
2,2,4-Trimethylpentane (Isooctane)	Test Type: Ames test Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mouse lymphoma assay Method: OECD Guideline 476 Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: negative
	Test Type: Unscheduled DNA synthesis assay Result: negative
Naphtha (petroleum), light alkylate	Test Type: Mouse lymphoma assay 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.
	Test Type: Sister chromatid exchange Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 479 Result: negative Remarks: Information given is based on data obtained from similar substances.
	Test Type: Ames test 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.
Isopentane	Test Type: Ames test Concentration: 1, 2, 5, 8, 10% Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

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	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.
	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.
	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.
C9-C11 Isoalkanes	Test Type: E. Coli bacterial reverse mutation assay Result: negative Remarks: Information given is based on data obtained from similar substances.
	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative Remarks: Information given is based on data obtained from similar substances.
	Test Type: Bacterial DNA repair test Result: negative Remarks: Information given is based on data obtained from similar substances.
Isoalkanes C7-8	Test Type: Ames test Result: negative
Toluene	Test Type: Ames test Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: negative
	Test Type: Mouse lymphoma assay Result: negative
	Test Type: Cytogenetic assay Result: negative
n-Heptane	Test Type: Ames test Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
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	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-Butane	Test Type: Ames test Result: negative
1-Hexene	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Unscheduled DNA synthesis assay Result: negative
	Test Type: Mouse lymphoma assay Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative
Cyclopentane	Test Type: Modified Ames test Concentration: 1250 microgram/plate Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Mouse lymphoma assay Concentration: 200 microgram/mililiter Metabolic activation: with and without metabolic activation Result: negative
2,2-Dimethylbutane	Test Type: Ames test Result: negative
Cyclohexane	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
n-hexane	Test Type: Ames test Metabolic activation: with and without metabolic activation
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	Method: OECD Test Guideline 471 Result: negative
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
	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.
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
Isoprene	Test Type: Ames test Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: positive
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
Naphthalene	Test Type: Ames test Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: negative
	Test Type: Unscheduled DNA synthesis assay Result: negative
n-Pentane	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative
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	Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Result: Ambiguous
Cumene	Test Type: Ames test Result: negative
	Test Type: Cytogenetic assay Result: negative
	Test Type: HGPRT assay Result: negative
	Test Type: Unscheduled DNA synthesis assay Result: negative
Genotoxicity in vivo	
Hydrocarbons, C3-11, catalytic cracker distillates	: Result: May cause genetic defects.
Naphtha (petroleum), light catalytic reformed	Test Type: Cytogenetic assay Result: negative
2,2,4-Trimethylpentane (Isooctane)	Test Type: Unscheduled DNA synthesis assay Species: Mouse Dose: 500 mg/kg Result: negative
	Test Type: Unscheduled DNA synthesis assay Species: Rat Dose: 500 mg/kg Result: negative
Naphtha (petroleum), light alkylate	Test Type: In vivo micronucleus test Species: Rat Cell type: Bone marrow Dose: 2000, 10,000, 20,000 mg/m3 Method: OECD Test Guideline 475 Result: negative Remarks: Information given is based on data obtained from similar substances.
Isopentane	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.
C9-C11 Isoalkanes	Test Type: Dominant lethal assay Result: negative Remarks: Information given is based on data obtained from similar substances.
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sion 4.2	Revision Date 2022-10
	Test Type: Mouse micronucleus assay Result: negative Remarks: Information given is based on data obtained from similar substances.
Toluene	Test Type: Cytogenetic assay Result: negative
	Test Type: Mouse micronucleus assay Result: negative
1-Hexene	Test Type: Mouse micronucleus assay Species: Mouse Method: Mutagenicity (micronucleus test) Result: negative
Cyclopentane	Test Type: Micronucleus test Species: Mouse Route of Application: inhalation (vapor) Dose: 10,000 ppm Result: negative
Cyclohexane	Test Type: Cytogenetic assay Species: Rat Cell type: Bone marrow Dose: 96.6, 307.2, 10141.6 ppm Result: negative
n-hexane	Test Type: Dominant lethal assay Species: Mouse Dose: 100 and 400 ppm Result: negative
	Test Type: Cytogenetic assay Species: Rat Dose: 900, 3000, 9000 ppm Result: negative
Xylenes	Test Type: Mouse micronucleus assay Result: negative
Ethylbenzene	Test Type: Mouse micronucleus assay Species: Mouse Result: negative
Isoprene	Result: negative
	Test Type: Micronucleus test Result: positive
Benzene	Test Type: Mouse micronucleus assay Result: positive
Naphthalene	Test Type: Mouse micronucleus assay Result: negative
n-Pentane	Test Type: Micronucleus test Species: Rat Cell type: Bone marrow Result: negative
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Cumene	Test Type: Mouse micronucleus assay Result: negative
Octane Test Fuel Carcinogenicity	: Method: Estimated based on individual component values. Remarks: May cause cancer.
Octane Test Fuel Reproductive toxicity	: May damage fertility. May damage the unborn child.
Octane Test Fuel Developmental Toxicity	: Suspected of damaging fertility or the unborn child.
Octane Test Fuel Aspiration toxicity Toxicology Assessment	: May be fatal if swallowed and enters airways.
Octane Test Fuel CMR effects	<ul> <li>Carcinogenicity: Human carcinogen. Mutagenicity: In vivo tests showed mutagenic effects Reproductive toxicity: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.</li> </ul>
Octane Test 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.
CTION 12: Ecological informa	ition
Ecotoxicity effects	
Toxicity to fish	: Species: Fish Very toxic to fish.
Toxicity to daphnia and other aquatic invertebrates	: Species: Daphnia Very toxic to aquatic organisms.
Toxicity to algae	: Species: Selenastrum capricornutum (algae) Very toxic to aquatic organisms.
<b>M-Factor</b> cyclohexane	: M-Factor (Acute Aquat. Tox.) 1
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<b>M-Factor</b> methylcyclohexane	M-Factor (Acute Aquat. Tox.) 1
	M-Factor (Chron. Aquat. Tox.) 1
Toxicity to bacteria	
Methylcyclohexane	: IC50: 29 mg/l Exposure time: 15 h Growth inhibition
Toxicity to fish (Chronic toxi	icity)
Hydrocarbons, C3-11, catalytic cracker distillates	: NOEL: 2.6 mg/l Toxic effects on fish and plankton
C9-C11 Isoalkanes	NOELR: 0.132 mg/l Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR modeled data
Isoalkanes C7-8	EL10: 0.38 mg/l Exposure time: 60 d Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR modeled data
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)	: Species: Daphnia Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Biodegradability	: This material is not expected to be readily biodegradable. Expected to be inherently biodegradable.
Elimination information (persist	tence and degradability)
Bioaccumulation	: This material is not expected to bioaccumulate.
Mobility	
Naphtha (petroleum), light catalytic reformed	: No data available
2,2,4-Trimethylpentane (Isooctane)	: Medium: Air Method: Calculation, Mackay Level I Fugacity Model After release, disperses into the air.
Naphtha (petroleum), light alkylate	: This product may float or sink in water. After release, disperses into the air.
Isopentane	: No data available

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C9-C11 Isoalkanes	:	The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
Isoalkanes C7-8	:	Medium: Air Method: Calculation, Mackay Level III Fugacity Model Content: 100 %
Toluene	:	Not expected to adsorb on soil.
n-Heptane	:	Medium: Air Method: Calculation, Mackay Level I Fugacity Model Content: 100 % After release, disperses into the air.
n-Butane	:	The product evaporates readily.
1-Hexene	:	No data available
Cyclopentane	:	No data available
Cyclohexane	:	Not expected to adsorb on soil.
n-hexane	:	Method: Calculation, Mackay Level III Fugacity Model The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
Ethylbenzene	:	Method: Calculation, Mackay Level I Fugacity Model Disperses rapidly in air.
Hydrogen Sulfide	:	No data available
Benzene	:	No data available
n-Pentane	:	After release, disperses into the air.
Results of PBT assessment	:	Non-classified PBT substance
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.
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.
CTION 13: Disposal considera	atio	ns
The information in this SDS p	ertai	ins only to the product as shipped.
may meet the criteria of a haz other State and local regulation regulated components may be	zardo ons. e ne	ose or recycle if possible. This material, if it must be discarded, bus waste as defined by US EPA under RCRA (40 CFR 261) or Measurement of certain physical properties and analysis for cessary to make a correct determination. If this material is federal law requires disposal at a licensed hazardous waste

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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.
ECTION 14: Transport information	ation
	shown here are for bulk shipments only, and may not apply to kages (see regulatory definition).
Goods Regulations for additi etc.) Therefore, the informat	nestic or international mode-specific and quantity-specific Dangerous ional shipping description requirements (e.g., technical name or names, tion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and the
UN1268, PETROLEUM F	DEPARTMENT OF TRANSPORTATION) PRODUCTS, N.O.S., 3, I, MARINE POLLUTANT, (2,2,4- ISOOCTANE), N-HEPTANE)
UN1268, PETROLEUM F	NAL MARITIME DANGEROUS GOODS) PRODUCTS, N.O.S., 3, I, (-37 °C c.c.), MARINE POLLUTANT, (2,2,4- ISOOCTANE), N-HEPTANE)
IATA (INTERNATIONAL AI UN1268, PETROLEUM F	<b>R TRANSPORT ASSOCIATION)</b> PRODUCTS, N.O.S., 3, I
UN1268, PETROLEUM F	NGEROUS GOODS BY ROAD (EUROPE)) PRODUCTS, N.O.S., 3, I, (D/E), ENVIRONMENTALLY IMETHYLPENTANE (ISOOCTANE), N-HEPTANE)
RID (REGULATIONS CONC DANGEROUS GOODS (EU	CERNING THE INTERNATIONAL TRANSPORT OF
33,UN1268,PETROLEUM	PRODUCTS, N.O.S., 3, I, ENVIRONMENTALLY HAZARDOUS, (2,2,4 SOOCTANE), N-HEPTANE)
OF DANGEROUS GOODS UN1268, PETROLEUM F	MENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) PRODUCTS, N.O.S., 3, I, ENVIRONMENTALLY HAZARDOUS, (2,2,4- ISOOCTANE), N-HEPTANE)
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### SECTION 15: Regulatory information

National legislation	
SARA 311/312 Hazards	: Flammable (gases, aerosols, liquids, or solids) Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Aspiration hazard Skin corrosion or irritation
CERCLA Reportable Quantity	: 200 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	<ul> <li>The following components are subject to reporting levels established by SARA Title III, Section 313:</li> <li>Toluene - 108-88-3 Xylenes - 1330-20-7 n-hexane - 110-54-3 1,2,4-Trimethylbenzene - 95-63-6 Ethylbenzene - 100-41-4 Benzene - 71-43-2 Naphthalene - 91-20-3 Cyclohexane - 110-82-7 Isoprene - 78-79-5 Cumene - 98-82-8</li> </ul>
Potential Cla 82,	s product neither contains, nor was manufactured with a Class I or ss II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR Subpt. A, App.A + B). are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61): : 2,2,4-Trimethylpentane (Isooctane) - 540-84-1 Toluene - 108-88-3

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700H 4.2	Xylenes - 1330-20-7 n-hexane - 110-54-3 Ethylbenzene - 100-41-4 Benzene - 71-43-2 Naphthalene - 91-20-3
Release Prevention (40 CFR 68	Sted under the U.S. Clean Air Act Section 112(r) for Accidental 8.130, Subpart F): Isopentane - 78-78-4 n-Butane - 106-97-8 n-Pentane - 109-66-0 2-methyl-1-butene - 563-46-2 Isoprene - 78-79-5
The following chemical(s) are lis Final VOC's (40 CFR 60.489):	sted under the U.S. Clean Air Act Section 111 SOCMI Intermediate
· · · · · · · · · · · · · · · · · · ·	Toluene - 108-88-3 Xylenes - 1330-20-7 Isopentane - 78-78-4 Ethylbenzene - 100-41-4 Benzene - 71-43-2 Cyclohexane - 110-82-7 n-Pentane - 109-66-0 Methylcyclohexane - 108-87-2 Isoprene - 78-79-5
US State Regulations	
Pennsylvania Right To Know .	Naphtha, Petroleum, Heavy Catalytic Cracked - 64741-54-4
	Naphtha (petroleum), light catalytic reformed - 64741-63-5 Hydrocarbons, C3-11, catalytic cracker distillates - 68476-46-0 2,2,4-Trimethylpentane (Isooctane) - 540-84-1 Toluene - 108-88-3 Naphtha (petroleum), light alkylate - 64741-66-8 3,3-Dimethylpentane - 562-49-2 Isoalkanes C7-8 - 70024-92-9 Xylenes - 1330-20-7 Isopentane - 78-78-4 C9-C11 Isoalkanes - 68551-16-6 Heptane, branched, cyclic and linear - 426260-76-6 n-hexane - 110-54-3 1,2,4-Trimethylbenzene - 95-63-6 n-Heptane - 142-82-5 Ethylbenzene - 100-41-4 n-Butane - 106-97-8 1-Hexene - 592-41-6 Cyclopentane - 287-92-3
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sion 4.2		Revision Date 2022-1
	2-Methylpentane - 107-83-5 Benzene - 71-43-2 Naphthalene - 91-20-3 3-Methylpentane - 96-14-0 2-Methylhexane - 591-76-4 2,2-Dimethylbutane - 75-83-2 Methylcyclopentane - 96-37-7 3-Methylhexane - 589-34-4 2-methyl-2-butene - 513-35-9 Cyclohexane - 110-82-7 2,3-Dimethylpentane - 79-29-8 2,3-Dimethylpentane - 79-29-8 2,3-Dimethylpentane - 108-08- n-Pentane - 109-66-0 Methylcyclohexane - 108-87-2 2-methyl-1-butene - 563-46-2 2-Methyl-2-Pentene - 625-27-4 Isoprene - 78-79-5 Hydrogen Sulfide - 7783-06-4 Cumene - 98-82-8	-3 -7
California Prop. 65 : Components	WARNING: This product can e	
	Ethylbenzene Benzene Naphthalene Isoprene Cumene	100-41-4 71-43-2 91-20-3 78-79-5 98-82-8
	Toluene	108-88-3
	n-hexane Benzene	110-54-3 71-43-2
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL	<ul> <li>Not in compliance with the inventory</li> <li>Not in compliance with the inventory</li> <li>On or in compliance with the active portion of the TSCA inventory</li> <li>This product contains one or several components listed</li> </ul>	
Other AIIC New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS Taiwan TCSI China IECSC	<ul> <li>in the Canadian NDSL.</li> <li>Not in compliance with the inventory</li> </ul>	

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#### SECTION 16: Other information

NFPA Classification	: Health Hazard: 2 Fire Hazard: 4 Reactivity Hazard: 0	2 0
Further information		
Legacy SDS Number	: 659960	

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.

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effe Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupation 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 Concentrat
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 Substan
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recover 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
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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%		

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