

# Isooctane (Pure Grade)

Version 1.7

TION 1: Identification of t	ne substance/mixture and of the company/undertaking
Product information Product Name Material	: Isooctane (Pure Grade) : 1074222, 1029592, 1029591, 1029593, 1031448, 1029590
Company	: Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive
Emergency telephone:	The Woodlands, TX 77380
Asia: +800 CHEMCALL EUROPE: BIG +32.14.5	
Responsible Department E-mail address Website	<ul> <li>Product Safety and Toxicology Group</li> <li>SDS@CPChem.com</li> <li>www.CPChem.com</li> </ul>
TION 2: Hazards identifica	ition
	e or mixture in accordance with the hazard communication standard 29 CFR contain all the information as required by the standard.
Danger Form: Liquid Physical s OSHA Hazards	tate: Liquid <b>Color</b> : Colorless <b>Odor</b> : Mild : Flammable Liquid, Moderate skin irritant, Aspiration hazard, Specific target organ systemic toxicity - single exposure
Classification	: Flammable liquids , Category 2 Skin irritation , Category 2
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	Specific target organ systemic toxicity - single exposure , Category 3 , Central nervous system Aspiration hazard , Category 1
Labeling	
Symbol(s)	
Signal Word	: Danger
Hazard Statements	<ul> <li>H225: Highly flammable liquid and vapor.</li> <li>H304: May be fatal if swallowed and enters airways.</li> <li>H315: Causes skin irritation.</li> <li>H336: May cause drowsiness or dizziness.</li> </ul>
Precautionary Statements	<ul> <li>Prevention:</li> <li>P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/ eye protection/ face protection.</li> <li>Response:</li> <li>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.</li> <li>P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.</li> <li>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P312 Call a POISON CENTER or doctor/ physician if you feel unwell.</li> <li>P331 Do NOT induce vomiting.</li> <li>P332 + P313 If skin irritation occurs: Get medical advice/ attention.</li> <li>P362 Take off contaminated clothing and wash before reuse.</li> <li>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</li> <li>Storage:</li> <li>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403 + P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>Disposal:</li> <li>P501 Dispose of contents/ container to an approved waste disposal plant.</li> </ul>
Carcinogenicity:	
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IARC	equa hum No ii	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen		
ACGIH	by N No ii equa	equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinoger by ACGIH.		
CTION 3: Composition/info	ormation	on ingredients		
Synonyms	AS Isc Isc	2,4-Trimethylpentane TM Isooctane Knock Te poctane (ASTM Grade) poctane mary Reference Fuel	st Reference Fuel	
Molecular formula	: C8	H18		
Component 2,2,4-Trimethylpentane (Is	ooctane)	CAS-No. 540-84-1	Weight % 99 - 100	
CTION 4: First aid measure	es			
General advice	: Mo	eet to the doctor in attend	a. Show this material safety data dance. Material may produce a eumonia if swallowed or vomited.	
	: Mo sh se	eet to the doctor in atten rious, potentially fatal pro	dance. Material may produce a	
General advice	: Mo sh se : Co pla : If s	eet to the doctor in attend rious, potentially fatal pro- nsult a physician after since in recovery position a	dance. Material may produce a eumonia if swallowed or vomited. gnificant exposure. If unconscious ind seek medical advice. I a physician. If on skin, rinse well	
General advice If inhaled	: Mo sh se : Co pla : If s wit : Flu	eet to the doctor in attend rious, potentially fatal pro- onsult a physician after since in recovery position a skin irritation persists, cal h water. If on clothes, re- ush eyes with water as a lises. Protect unharmed	dance. Material may produce a eumonia if swallowed or vomited. gnificant exposure. If unconscious ind seek medical advice. I a physician. If on skin, rinse well	
General advice If inhaled In case of skin contact	: Mo sh se : Co pla : If s wit : Flu ler rin : Ke an	eet to the doctor in attend rious, potentially fatal pro- insult a physician after since in recovery position a skin irritation persists, cal h water. If on clothes, re- ush eyes with water as a lises. Protect unharmed sing. If eye irritation persi- ep respiratory tract clear	<ul> <li>dance. Material may produce a eumonia if swallowed or vomited.</li> <li>gnificant exposure. If unconscious ind seek medical advice.</li> <li>I a physician. If on skin, rinse well emove clothes.</li> <li>precaution. Remove contact eye. Keep eye wide open while sists, consult a specialist.</li> <li>Never give anything by mouth to symptoms persist, call a physician.</li> </ul>	
General advice If inhaled In case of skin contact In case of eye contact	: Mo sh se : Co pla : If s wit : Flu ler rin : Ke an Ta	eet to the doctor in attend rious, potentially fatal pro- msult a physician after since in recovery position a skin irritation persists, cal h water. If on clothes, re- ush eyes with water as a isses. Protect unharmed sing. If eye irritation person ep respiratory tract clear unconscious person. If	<ul> <li>dance. Material may produce a eumonia if swallowed or vomited.</li> <li>gnificant exposure. If unconscious ind seek medical advice.</li> <li>I a physician. If on skin, rinse well emove clothes.</li> <li>precaution. Remove contact eye. Keep eye wide open while sists, consult a specialist.</li> <li>Never give anything by mouth to symptoms persist, call a physician.</li> </ul>	
General advice If inhaled In case of skin contact In case of eye contact If swallowed	: Mo sh se : Co pla : If s wit : Flu ler rin : Ke an Ta sures : -1	eet to the doctor in attend rious, potentially fatal pro- msult a physician after since in recovery position a skin irritation persists, cal h water. If on clothes, re- ush eyes with water as a isses. Protect unharmed sing. If eye irritation person ep respiratory tract clear unconscious person. If	<ul> <li>dance. Material may produce a eumonia if swallowed or vomited.</li> <li>gnificant exposure. If unconscious ind seek medical advice.</li> <li>I a physician. If on skin, rinse well emove clothes.</li> <li>precaution. Remove contact eye. Keep eye wide open while sists, consult a specialist.</li> <li>Never give anything by mouth to symptoms persist, call a physician.</li> </ul>	
General advice If inhaled In case of skin contact In case of eye contact If swallowed	: Mo sh se : Co pla : If s wit : Flu ler rin : Ke an Ta sures : -1 est	eet to the doctor in attend rious, potentially fatal pro- msult a physician after since in recovery position a skin irritation persists, cal h water. If on clothes, re- ush eyes with water as a uses. Protect unharmed sing. If eye irritation pers ep respiratory tract clear unconscious person. If ke victim immediately to	<ul> <li>dance. Material may produce a eumonia if swallowed or vomited.</li> <li>gnificant exposure. If unconscious ind seek medical advice.</li> <li>I a physician. If on skin, rinse well emove clothes.</li> <li>precaution. Remove contact eye. Keep eye wide open while sists, consult a specialist.</li> <li>Never give anything by mouth to symptoms persist, call a physician.</li> </ul>	
General advice If inhaled In case of skin contact In case of eye contact If swallowed CTION 5: Firefighting measure Flash point	: Mo sh se : Co pla : If s wit : Flu ler rin : Ke an Ta sures : -1 est : 41	eet to the doctor in attend rious, potentially fatal pro- msult a physician after si- ace in recovery position a skin irritation persists, cal h water. If on clothes, re- ush eyes with water as a ases. Protect unharmed sing. If eye irritation pers ep respiratory tract clear unconscious person. If ke victim immediately to 2.22 °C (10.00 °F) timated 1 °C (772 °F)	<ul> <li>dance. Material may produce a eumonia if swallowed or vomited.</li> <li>gnificant exposure. If unconscious ind seek medical advice.</li> <li>I a physician. If on skin, rinse well emove clothes.</li> <li>precaution. Remove contact eye. Keep eye wide open while sists, consult a specialist.</li> <li>Never give anything by mouth to symptoms persist, call a physician.</li> </ul>	

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ersion 1.7		Revision Date 2016-01-2
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	:	Do not spray on an open flame or any other 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	:	Hydrocarbons. Carbon oxides.
ECTION 6: Accidental release I	mea	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 storage	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.
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Advice on protection against fire and explosion	: Do not spray on an open flame or any other 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	<ul> <li>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.</li> <li>Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.</li> </ul>
ECTION 8: Exposure control	s/personal protection
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personal protective equipm exposure to harmful levels recommended. The user s	nces in the work place when designing engineering controls and selectin ent. If engineering controls or work practices are not adequate to preve of this material, the personal protective equipment listed below is hould read and understand all instructions and limitations supplied with tion is usually provided for a limited time or under certain circumstances.
Personal protective equip	oment
Respiratory protection	: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Hand protection	: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	: Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate: Flame-resistant clothing. Footwear

Wear as appropriate:. Flame-resistant clothing. Footwear

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

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protecting against chemicals.

Hygiene measures

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Wash hands before breaks and at the end of workday.

	ical properties
Information on basic physic	cal and chemical properties
Appearance Form	: Liquid
Physical state	: Liquid
Color Odor	: Colorless : Mild
Safety data	
Flash point	: -12.22 °C (10.00 °F)
	estimated
Lower explosion limit	: 1 %(V)
Upper explosion limit	: 7 %(V)
Oxidizing properties	: no
Autoignition temperature	: 411 °C (772 °F)
Molecular formula	: C8H18
Molecular weight	: 114.26 g/mol
рН	: Not applicable
Pour point	: No data available
Boiling point/boiling range	: 99 °C (210 °F)
Vapor pressure	: 1.70 PSI at 37.8 °C (100.0 °F)
Relative density	: 0.69 at 15.6 °C (60.1 °F)
Water solubility	: Negligible
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: 0.503 cSt at 20 °C (68 °F)
Relative vapor density	: 1 (Air = 1.0)
Evaporation rate	: 1
Percent volatile	: > 99 %

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FION 10: Stability and react	ivity
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
ossibility of hazardous rea	ctions
Conditions to avoid	: Heat, sparks, fire, and oxidizing agents.
Materials to avoid	<ul> <li>May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.</li> <li>Hydrocarbons</li> </ul>
Hazardous decomposition products	Carbon oxides
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological info	rmation
Acute oral toxicity	
2,2,4-Trimethylpentane (Isooctane)	: LD50: > 5,000 mg/kg Species: Rat Sex: male and female Method: OECD Test Guideline 401 Symptoms: Salivation
Acute inhalation toxicity	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>LC50: &gt; 33.52milligram per literExposure time: 4 h Species: Rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403</li> </ul>
Acute dermal toxicity	
2,2,4-Trimethylpentane (Isooctane)	: LD50: >2000 milligram per kilogram Species: Rabbit Sex: male and female Method: OECD Test Guideline 402
Isooctane (Pure Grade) Skin irritation	: Irritating to skin.
	May cause skin irritation in susceptible persons.
Isooctane (Pure Grade) Eye irritation	: No eye irritation
	Vapors may cause irritation to the eyes, respiratory system and the skin.
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Sensitization	
2,2,4-Trimethylpentane (Isooctane)	: Does not cause skin sensitization.
Repeated dose toxicity	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 0, 668, 2220, 6646 ppm Exposure time: 13 weeks Number of exposures: 6 hr/day 5 d/wk NOEL: 8.117 mg/l 2220 ppm Method: OECD Guideline 413 Information given is based on data obtained from similar substances.</li> </ul>
Reproductive toxicity	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>Species: Rat Sex: male and female Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm Number of exposures: 6 h/d 5 d/wk Method: OECD Test Guideline 416 NOAEL Parent: 3000 ppm NOAEL F1: 3000 ppm NOAEL F2: 3000 ppm Information given is based on data obtained from similar substances.</li> </ul>
Developmental Toxicity	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>Species: Rat Application Route: Inhalation Dose: 0, 400, 1200 ppm Number of exposures: 6h/d Test period: GD6-15 NOAEL Teratogenicity: 1200 ppm NOAEL Maternal: 1200 ppm Information given is based on data obtained from similar substances.</li> <li>Species: Rat Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm Number of exposures: 6h/d Test period: GD6-15 Method: OECD Guideline 414 NOAEL Teratogenicity: 9000 ppm NOAEL Maternal: 3000 ppm Information given is based on data obtained from similar substances.</li> </ul>
Isooctane (Pure Grade) Aspiration toxicity	: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards

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	or to be regarded as if they cause human aspiration toxicity hazard.
CMR effects	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.</li> </ul>
Isooctane (Pure Grade) 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.
TION 12: Ecological inform	ation
Toxicity to fish	
2,2,4-Trimethylpentane (Isooctane)	: LC50: 0.11 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
Toxicity to daphnia and oth	her aquatic invertebrates
2,2,4-Trimethylpentane (Isooctane)	: EC50: 0.4 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Information given is based on data obtained from similar substances.
Toxicity to algae	
2,2,4-Trimethylpentane (Isooctane)	: EL50: 2.943 mg/l Exposure time: 72 h Method: QSAR modeled data
Toxicity to daphnia and oth	her aquatic invertebrates (Chronic toxicity)
2,2,4-Trimethylpentane (Isooctane)	: NOEC: 0.17 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
Biodegradability	
2,2,4-Trimethylpentane (Isooctane)	: Result: Not readily biodegradable. Method: OECD Test Guideline 301
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	Expected to be inherently biodegradable. Information given is based on data obtained from similar substances.
Ecotoxicology Assessmen	t
Acute aquatic toxicity 2,2,4-Trimethylpentane (Isooctane)	: Very toxic to aquatic life.
Chronic aquatic toxicity 2,2,4-Trimethylpentane (Isooctane)	: Very toxic to aquatic life with long lasting effects.
Results of PBT assessment 2,2,4-Trimethylpentane (Isooctane)	: Non-classified PBT substance, Non-classified vPvB 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.
ECTION 13: Disposal conside	rations
	purpose or recycle if possible. This material, if it must be discarded,
may meet the criteria of a ha other State and local regulati regulated components may b	purpose or recycle if possible. This material, if it must be discarded, izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste
may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa	izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is
may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa disposal facility.	<ul> <li>ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste</li> <li>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</li> </ul>
may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa disposal facility. Product	<ul> <li>izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste</li> <li>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.</li> <li>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.</li> </ul>
may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa disposal facility. Product Contaminated packaging ECTION 14: Transport informa The shipping descriptions	<ul> <li>izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste</li> <li>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.</li> <li>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.</li> </ul>
may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa disposal facility. Product Contaminated packaging <b>ECTION 14: Transport informa</b> <b>The shipping descriptions shipments in non-bulk pac</b> Consult the appropriate dom Goods Regulations for additi etc.) Therefore, the informat	<ul> <li>izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste</li> <li>: 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.</li> <li>: 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.</li> </ul> ation shown here are for bulk shipments only, and may not apply to chages (see regulatory definition). estic or international mode-specific and quantity-specific Dangerous onal shipping description requirements (e.g., technical name or names tion shown here, may not always agree with the bill of lading shipping
may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa disposal facility. Product Contaminated packaging ECTION 14: Transport informa The shipping descriptions shipments in non-bulk pac Consult the appropriate dom Goods Regulations for additi etc.) Therefore, the informat description for the material. bill of lading. US DOT (UNITED STATES UN1262, OCTANES, (2,2	<ul> <li>izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste</li> <li>: 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.</li> <li>: 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.</li> </ul>

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	NAL MARITIME DANGEROUS GOODS) II, (-12.22 °C), MARINE POLLUTANT, (2,2,4-TRIMETHYLPENTANE
IATA (INTERNATIONAL A UN1262, OCTANES, 3,	NIR TRANSPORT ASSOCIATION)
	ANGEROUS GOODS BY ROAD (EUROPE)) II, (D/E), ENVIRONMENTALLY HAZARDOUS, (2,2,4- (ISOOCTANE))
DANGEROUS GOODS (E	<b>ICERNING THE INTERNATIONAL TRANSPORT OF UROPE))</b> II, ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYLPENTANE
OF DANGEROUS GOODS	EMENT CONCERNING THE INTERNATIONAL CARRIAGE B BY INLAND WATERWAYS) II, ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYLPENTANE
CTION 15: Regulatory infor	o Annex II of MARPOL 73/78 and the IBC Code mation
CTION 15: Regulatory infor	
ECTION 15: Regulatory infor National legislation SARA 311/312 Hazards CERCLA Reportable	mation
CTION 15: Regulatory infor National legislation SARA 311/312 Hazards	mation : Fire Hazard Acute Health Hazard
ECTION 15: Regulatory infor National legislation SARA 311/312 Hazards CERCLA Reportable	<ul> <li>mation</li> <li>: Fire Hazard Acute Health Hazard</li> <li>: 1000 lbs</li> </ul>
ECTION 15: Regulatory infor National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable	<ul> <li>Fire Hazard Acute Health Hazard</li> <li>1000 lbs 2,2,4-Trimethylpentane (Isooctane)</li> <li>This material does not contain any components with a SARA</li> </ul>
ECTION 15: Regulatory infor National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold	<ul> <li>Fire Hazard Acute Health Hazard</li> <li>1000 lbs 2,2,4-Trimethylpentane (Isooctane)</li> <li>This material does not contain any components with a SARA 302 RQ.</li> <li>No chemicals in this material are subject to the reporting</li> </ul>
ECTION 15: Regulatory infor National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold Planning Quantity SARA 304 Reportable	<ul> <li>Fire Hazard Acute Health Hazard</li> <li>1000 lbs 2,2,4-Trimethylpentane (Isooctane)</li> <li>This material does not contain any components with a SARA 302 RQ.</li> <li>No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</li> <li>This material does not contain any components with a section</li> </ul>

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SARA 313 Ingredients	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Clean Air Act	
Potential Class	roduct neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR Ibpt. A, App.A + B).
The following chemical(s) are	e listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61) : 2,2,4-Trimethylpentane (Isooctane) - 540-84-1
	n any chemicals listed under the U.S. Clean Air Act Section 112(r) for on (40 CFR 68.130, Subpart F).
This product does not contain Intermediate or Final VOC's	n any chemicals listed under the U.S. Clean Air Act Section 111 SOC (40 CFR 60.489).
US State Regulations	
Pennsylvania Right To Know	1
	: 2,2,4-Trimethylpentane (Isooctane) - 540-84-1
New Jersey Right To Know	
New Jersey Right To Know California Prop. 65 Ingredients	: 2,2,4-Trimethylpentane (Isooctane) - 540-84-1
California Prop. 65 Ingredients Notification status	<ul> <li>2,2,4-Trimethylpentane (Isooctane) - 540-84-1</li> <li>2,2,4-Trimethylpentane (Isooctane) - 540-84-1</li> <li>This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.</li> </ul>
California Prop. 65 Ingredients Notification status Europe REACH United States of America TS	<ul> <li>2,2,4-Trimethylpentane (Isooctane) - 540-84-1</li> <li>2,2,4-Trimethylpentane (Isooctane) - 540-84-1</li> <li>This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> </ul>
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### Isooctane (Pure Grade)

Version 1.7

SAFETY DATA SHEET

Revision Date 2016-01-21

#### SECTION 16: Other information

NFPA Classification	: Health Hazard: 2 Fire Hazard: 3 Reactivity Hazard: 0
Further information	
Legacy SDS Number	: 26760
Significant changes since	the last version are highlighted in the margin. This version replaces all
previous versions.	the last version are highlighted in the margin. This version replaces all

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	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effe
	Substances		Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupation
	Substances List		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 Concentra
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health
	Scenario Tool		Administration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		Commercial Chemical Substar
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov
			Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and
			Reauthorization Act.
IARC	International Agency for Research	TLV	Threshold Limit Value
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
Number:100			3/14

## Isooctane (Pure Grade)

Version 1.7

Revision Date 2016-01-21

	Substances in China		
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%		

SDS Number:100000068259