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## **ISOOCTANE (ASTM GRADE)**

### **MSDS Number**

BHCKC

### **National Stock Number**

6810-00-463-4271

### **Product Name**

ISOOCTANE (ASTM GRADE)

### **Manufacturer**

PHILLIPS 66 COMPANY

### **Product Identification**

Product ID:ISOOCTANE (ASTM GRADE)

MSDS Date:02/26/1999

FSC:6810

NIIN:00-463-4271

MSDS Number: BHCKC

### **Responsible Party**

PHILLIPS 66 COMPANY

758 ADAMS BLDG

BARTLESVILLE , OK 74004

US

Emergency Phone: 918-661-8118

Info Phone: 918-661-8327/714-864-2310

Cage: 46935

### **Contractor**

PHIPPS PRODUCTS CORP

BOSTON, MA 02111-2403

US

OUT OF BUSINESS

Cage: 86511

### **Ingredients**

ISOOCTANE (2,2,4-TRIMETHYLPENTANE)

CAS: 540-84-1

RTECS: SA3320000

OSHA PELN/E

ACGIH TLV: N/E

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

N-HEPTANE

CAS: 142-82-5

RTECS: MI7700000

OSHA PEL2000 MG/M3;500 PPM

ACGIH TLV: 1640 MG/M3;400 PPM

OCTANE ISOMERS (MSDS HAD CAS 26635-64-3)

OSHA PELN/E

ACGIH TLV: N/E

## Hazards

LD50 LC50 Mixture:ORAL LD50 (RAT) IS >5000 MG/KG

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EYE/SKIN: MAY PRODUCE MILD IRRITATION. INHALATION: MAY CAUSE SLIGHT MUCOUS MEMBRANE IRRITATION, RAPID BREATHING, FATIGUE, HEADACHE, LIGHT HEADEDNESS, DIZZINESS & OTHER CNS EFFECTS. EXTREME EXPOSURES MAY CAUSE RESPIRATORY ARREST, CONVULSIONS OR UNCONSCIOUSNESS. INGESTION: MAY CAUSE DIARRHEA, SLIGHT CNS DEPRESSION, DIFFICULTY IN BREATHING AND FATIGUE. IF SWALLOWED, MAY BE ASPIRATED RESULTING IN INFLAMMATION & POSSIBLE FLUID ACCUMULATION IN THE LUNGS.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:SEE HEALTH EFFECTS SECTION FOR ACUTE EFFECTS. SUBCHRONIC & CHRONIC EFFECTS: IN A SUBCHRONIC ORAL LAB STUDY ISOCTANE HAS PRODUCED KIDNEY DAMAGE IN MALE RATS ONLY. NO COMPARABLE HEALTH HAZARD FOR KIDNEY DISEASE IS KNOWN TO OCCUR IN HUMANS.

Medical Cond Aggravated by Exposure:ISOCTANE HAS PRODUCED KIDNEY DAMAGE IN MALE RATS ONLY IN A SUBCHRONIC ORAL LABORATORY STUDY. NO COMPARABLE HEALTH HAZARD FOR KIDNEY DISEASE IS KNOWN TO OCCUR IN HUMANS.

## First Aid

First Aid:SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION: REMOVE TO FRESH AIR & RESTORE BREATHING IF NECESSARY. GET MEDICAL ATTENTION. EYE : IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. INGESTION: GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NOTHING BY MOUTH IF UNCONSCIOUS. NO TELL TO PHYSICIAN: GASTRIC LAVAGE USING CUFFED ENDOTRACHEAL TUBE MAY BE PERFORMED AT YOUR DISCRETION.

## Fire Fighting

Flash Point Method:TCC

Flash Point:=-7.6C, 18.F

Lower Limits:1.0

Upper Limits:NOT ESTABL

Extinguishing Media:DRY CHEMICAL, FOAM OR CARBON DIOXIDE

Fire Fighting Procedures:EVACUATE AREA, SHUT OFF SOURCE. WEAR SCBA & OTHER PROTECTIVE EQUIPMENT. WATER SPRAY MAY BE USED TO COOL FIRE EXPOSED CONTAINERS. DO NOT SPRAY WATER ON FIRE AS PRODUCT WILL FLOAT AND COULD BE REIGNITED ON SURFACE OF WATER.

Unusual Fire/Explosion Hazard:CARBON OXIDES FORMED WHEN BURNED. HIGHLY FLAMMABLE VAPORS WHICH ARE HEAVIER THAN AIR MAY ACCUMULATE IN LOW AREAS AND/OR SPREAD ALONG GROUND AWAY FROM HANDLING SITE. PRODUCT WILL FLOAT ON WATER.

## Accidental Release

Spill Release Procedures:EVACUATE AREA. WEAR PROTECTIVE EQUIPMENT AND SCBA. SHUT OFF SOURCE, IF POSSIBLE AND CONTAIN SPILL. PROTECT FROM IGNITION. KEEP OUT OF WATER SOURCES AND SEWERS. ABSORB IN A DRY, INERT MATERIAL. TRANSFER TO DISPOSAL DRUMS USING NON-SPARKING EQUIPMENT.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED

AREA AWAY FROM SOURCES OF IGNITION. KEEP CONTAINERS CLOSED WHEN NOT IN USE. EMPTY CONTAINERS MAY BE HAZARDOUS.

Other Precautions: AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. AVOID BREATHING VAPORS. WEAR PROTECTIVE EQUIPMENT AND/OR GARMENTS. WASH THOROUGHLY AFTER HANDLING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. PROVIDE MEANS OF CONTROLLING LEAKS AND SPILLS. USE WITH ADEQUATE VENTILATION.

## Exposure Controls

Respiratory Protection: FOR CONCENTRATIONS EXCEEDING THE RECOMMENDED EXPOSURE LIMIT, USE NIOSH APPROVED AIR PURIFYING RESPIRATOR.

Ventilation: USE ADEQUATE VENTILATION TO CONTROL CONCENTRATION BELOW RECOMMENDED EXPOSURE LIMITS

Protective Gloves: NEOPRENE - RESISTANT TO MATERIAL BEING USED.

Eye Protection: USE CHEMICAL SAFETY GOGGLES & FACESHIELD

Other Protective Equipment: EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices: DO NOT TAKE INTERNALLY. AVOID SKIN CONTACT.

WASH SKIN AFTER USING PRODUCT. DO NOT EAT, DRINK OR SMOKE IN WORK AREA.

Supplemental Safety and Health

PPE BASED ON NORMAL USES & CONDITIONS. FOR SPECIAL/UNUSUAL CONDITIONS, USE EXPERT ADVICE OF INDUSTRIAL HYGIENIST OR OTHER QUALIFIED PERSONNEL.

## Chemical Properties

HCC: F2

Boiling Pt: B.P. Text: 211F, 99C

Melt/Freeze Pt: M.P/F.P Text: -161F, -107C

Decomp Temp: Decomp Text: NOT GIVEN

Vapor Pres: 1.7PSIA @ 100F

Vapor Density: > 1

Spec Gravity: 0.696

Viscosity: 0.503 CST @ 68F

Evaporation Rate & Reference: > 1 (N-BUTYL ACETATE = 1)

Solubility in Water: NEGLIGIBLE

Appearance and Odor: CLEAR, COLORLESS LIQUID - MILD GASOLINE ODOR.

Percent Volatiles by Volume: 100

## Stability

Stability Indicator/Materials to Avoid: YES

OXYGEN AND STRONG OXIDIZING AGENTS

Stability Condition to Avoid: EXTREME HEAT OR SOURCES OF IGNITION

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE AND OTHER HYDROCARBON COMPOUNDS DURING COMBUSTION.

## Disposal

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. INCINERATE OR PLACE IN PERMITTED WASTE MANAGEMENT FACILITY.

## Toxicology

Toxicological Information: THE COMPANY RECOMMENDS A PERMISSIBLE EXPOSURE LEVEL (8-HR TWA) OF 300 PPM FOR ISOCTANE (2,2,4-TRIMETHYLPENTANE).

DERMAL LD50 (RABBIT) FOR ISOCTANE IS > 2000 MG/KG. INHALATION LC50

(RAT) FOR ISOCTANE IS > 3078.44 PPM AFTER A 4 HR EXPOSURE AND A

14 DAY POSTEXPOSURE OBSERVATION PERIOD. ORAL LD50 (RAT) FOR

ISOCTANE IS > 5000 MG/KG. A TOXICITY STUDY SUMMARY FOR ISOCTANE

IS AVAILABLE FROM PHILLIPS UPON REQUEST.

## Other Information

Disclaimer (provided with this information by the compiling agencies):

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particular situation.

## Ecology

Ecological:NOT PROVIDED

## Transport

Transport Information:SEE TRANSPORTATION DATA.

## Regulatory

SARA Title III Information:DOES NOT CONTAIN CHEMICALS SUBJECT TO  
REPORTING REQUIREMENTS OF SARA 313

Federal Regulatory Information:ISOOCTANE CERCLA RQ = 1000 LB

State Regulatory Information:NOT PROVIDED