

Iso-Octane, PRF

RS362-19

Version 2.0 Revision Date 06/13/2019 Print Date 05/30/2023

SECTION 1. IDENTIFICATION

Product name : Iso-Octane, PRF

Number : 000000011379

Product Use Description : Solvent

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

GmbH

Wunstorfer Straße 40

Seelze, 30926

For more information call : 1-800-368-0050

+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or

+1-703-527-3887

.

: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : liquid

Color : colourless

Odor : slight hydrocarbon-like

Classification of the substance or mixture

Classification of the substance : Flammable liquids, Category 2

or mixture

Flammable liquids, Category 2
Skin irritation, Category 2

Specific target organ toxicity - single exposure, Category 3,

Central nervous system
Aspiration hazard, Category 1



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GHS Label elements, including precautionary statements

Symbol(s)







Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

Precautionary statements : Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No

smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Store locked up.

Disposal:



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Dispose of contents/ container to an approved waste disposal

plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C8H18

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
2,2,4-Trimethylpentane; (Isooctane)	540-84-1	100.00 %

SECTION 4. FIRST AID MEASURES

Inhalation : Call a physician immediately. Remove to fresh air. If not

breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is

present.

Skin contact : Wash off immediately with plenty of water for at least 15

minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Call a physician.

Ingestion : Do NOT induce vomiting. If a person vomits when lying on his

back, place him in the recovery position. Call a physician immediately. Never give anything by mouth to an unconscious

person.

Notes to physician



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Indication of immediate medical attention and special treatment needed, if

: Treat symptomatically.

necessary

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam

Carbon dioxide (CO2)

Dry chemical

Cool closed containers exposed to fire with water spray.

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during

firefighting

Extremely flammable.

Vapours may form explosive mixtures with air.

Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before

igniting/flashing back to vapor source.

In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2)

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Wear personal protective equipment. Unprotected persons

must be kept away.

Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation. Remove all sources of ignition.

Do not swallow.

Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

Discharge into the environment must be avoided.

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> Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water

courses.

Methods and materials for containment and cleaning

up

Ventilate the area.

No sparking tools should be used. Use explosion-proof equipment.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national

regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe

handling

: Wear personal protective equipment.

Use only in well-ventilated areas. Keep container tightly closed.

Do not smoke. Do not swallow.

Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Advice on protection against :

fire and explosion

Keep away from fire, sparks and heated surfaces.

Take precautionary measures against static discharges.

Ensure all equipment is electrically grounded before beginning

transfer operations.

Use explosion-proof equipment.

Keep product and empty container away from heat and sources

of ignition.

No sparking tools should be used.

No smoking.

Storage

Conditions for safe storage,

including any incompatibilities Store in area designed for storage of flammable liquids. Protect

from physical damage.

Keep containers tightly closed in a dry, cool and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep away from heat and sources of ignition.

Keep away from direct sunlight.

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Store away from incompatible substances.

Container hazardous when empty.

Do not pressurize, cut, weld, braze, solder, drill, grind or expose

containers to heat or sources of ignition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Engineering measures : Use with local exhaust ventilation.

Prevent vapour buildup by providing adequate ventilation during

and after use.

Eye protection : Do not wear contact lenses.

Wear as appropriate:

Safety glasses with side-shields If splashes are likely to occur, wear:

Goggles or face shield, giving complete protection to eyes

Hand protection : Solvent-resistant gloves

Gloves must be inspected prior to use.

Replace when worn.

Skin and body protection : Wear as appropriate:

Solvent-resistant apron

Flame retardant antistatic protective clothing.

If splashes are likely to occur, wear:

Protective suit

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators. For rescue and maintenance work in storage tanks use

self-contained breathing apparatus.

Use NIOSH approved respiratory protection.

Hygiene measures : When using, do not eat, drink or smoke.

Wash hands and face before breaks and immediately after

handling the product.

Keep working clothes separately.

Remove and wash contaminated clothing before re-use.

Do not swallow.

Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

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Exposure Guidelines					
Components	CAS-No.	Value	Control parameters	Upda te	Basis
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	TWA: Time weighted average	(300 ppm)	03 2012	ACGIH:US. ACGIH Threshold Limit Values
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	TWA: Time weighted average	(300 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	Ceil_Tim e: Ceiling Limit Value and Time Period (if specified) :	1,800 mg/m3 (385 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	REL: Recomm ended exposure limit (REL):	350 mg/m3 (75 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	PEL: Permissi ble exposure limit	2,350 mg/m3 (500 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	STEL : Short term exposure limit	1,800 mg/m3 (375 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)



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2,2,4-Trimethylpe	540-84-1	TWA:	1,450 mg/m3	1989	Z1A:US. OSHA
ntane;		Time	(300 ppm)		Table Z-1-A (29
(Isooctane)		weighted			CFR 1910.1000)
		average			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : colourless

Odor : slight hydrocarbon-like

Odor threshold : Note: no data available

pH : Note: Not applicable

Melting point/range : -107.4 °C

Boiling point/boiling range : 99.24 °C

Flash point : 18 °F (-8 °C)

Method: closed cup

Evaporation rate : Note: no data available

Lower explosion limit : 1 %(V)

Upper explosion limit : 7 %(V)

Vapor pressure : 54.66 hPa

at 20 °C(68 °F)

Vapor density : 3.9 Note: (Air = 1.0)

Density : 0.69 g/cm3 at 20 °C

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Water solubility : 0.002 g/l at 25 °C

Partition coefficient:

n-octanol/water

: Note: no data available

Ignition temperature : 411 °C

Decomposition temperature : Note: no data available

Viscosity, dynamic : Note: no data available

Viscosity, kinematic : Note: no data available

Molecular weight : 114.23 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions
Conditions to avoid

: Hazardous polymerisation does not occur.

Keep away from direct sunlight.

Incompatible materials : Strong oxidizing agents

Strong acids Strong bases Reducing agents

: Heat, flames and sparks.

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2)

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 5,000 mg/kg

Species: Rat Note: No deaths

Acute inhalation toxicity : LC50: 33.52 mg/l , vapour

Exposure time: 4 h

Species: Rat

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50: > 2,000 mg/kg

Species: Rabbit

Method: OECD Test Guideline 402

Note: No deaths

Skin irritation : Species: Rabbit

Result: Irritating to skin.

Eye irritation : Species: Rabbit

Result: slight irritation

SECTION 12. ECOLOGICAL INFORMATION

Further information on ecology

Additional ecological

information

: Bioaccumulation is unlikely. Not inherently biodegradable.

Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental

regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1262

Proper shipping name : OCTANES

Class 3
Packing group II
Hazard Labels 3

IATA UN/ID No. : UN 1262

Description of the goods : OCTANES

Class : 3
Packaging group : II
Hazard Labels : 3
Packing instruction (cargo : 364

aircraft)

Packing instruction : 353

(passenger aircraft)

Packing instruction : Y341

(passenger aircraft)

IMDG UN/ID No. : UN 1262

Description of the goods : OCTANES

Class : 3 Packaging group : II Hazard Labels : 3

EmS Number : F-E, S-E Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances

Control Act

: On TSCA Inventory

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Australia. Industrial Chemical (Notification and

Assessment) Act

: All components of this product are on the Canadian DSL

: On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control

Act

: On the inventory, or in compliance with the inventory

China. Inventory of Existing

Chemical Substances

: On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

. Zealand : On the inventory, or in compliance with the inventory

National regulatory information

US. EPA CERCLA Hazardous Substances (40

CFR 302)

: The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

Reportable quantity: 1000 lbs

: 2,2,4-Trimethylpentane; 540-84-1

(Isooctane)

SARA 302 Components : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 Components : 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.



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SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

CERCLA Reportable

Quantity

: 1000 lbs

California Prop. 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

Massachusetts RTK : 2,2,4-Trimethylpentane; 540-84-1

(Isooctane)

New Jersey RTK : 2,2,4-Trimethylpentane; 540-84-1

(Isooctane)

Pennsylvania RTK : 2,2,4-Trimethylpentane; 540-84-1

(Isooctane)

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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. Final determination of suitability of any material is the sole responsibility of



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the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 04/24/2014

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group