# Honeywell

## CS207-200 (99% HEPTANE)

# 000000011371

Version 1.7 Revision Date 06/11/2015 Print Date 08/04/2016

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name 99% n-Heptane

Number 000000011371

Product Use Description Solvent

Manufacturer or supplier's

details

Honeywell International Inc.

115 Tabor Road

Morris Plains, NJ 07950-2546

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, clear

Color : colourless

Odor : hydrocarbon-like

Classification of the substance or mixture

Classification of the : Flammable liquids, Category 2 Skin irritation, Category 2 substance or mixture

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 and 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 or

doctor/ physician.

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 or doctor/ physician 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.

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Store locked up.

Disposal:

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 : C7H16

Chemical nature : Substance

Chemical Name	CAS-No.	Concentration
Heptane	142-82-5	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 without medical advice. If a person

vomits when lying on his back, place him in the recovery

position. Call a physician immediately. Never give anything by

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mouth to an unconscious person.

Notes to physician

Treatment : Treat symptomatically.

### **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

: 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 : 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.

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

Prevent product from entering drains.

Discharge into the environment must be avoided.

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 for 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

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

Requirements for storage

areas and containers

Store in area designed for storage of flammable liquids.

Protect from physical damage.

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

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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.

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 : In case of insufficient ventilation, wear suitable respiratory

equipment.

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

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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.

#### **Exposure Guidelines**

Exposure Guidelines					
Components	CAS-No.	Value	Control parameters	Upda te	Basis
Heptane	142-82-5	STEL: Short term exposure limit	(500 ppm)	02 2012	ACGIH:US. ACGIH Threshold Limit Values
11	140.00.5	T) A / A ·	(400)	100	1 A C C
Heptane	142-82-5	TWA: Time weighted average	(400 ppm)	02 2012	ACGIH:US. ACGIH Threshold Limit Values
	140.00.5	To " =	14000 / 0	10005	TAHOOLIVOLIIDE LIO
Heptane	142-82-5	Ceil_Tim e: Ceiling Limit Value and Time Period (if specified) :	1,800 mg/m3 (440 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
	110.00	T	I a = a	T	
Heptane	142-82-5	REL: Recomm ended exposure limit (REL):	350 mg/m3 (85 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
, , , , , , , , , , , , , , , , , , , ,					
Heptane	142-82-5	PEL: Permissi ble exposure limit	2,000 mg/m3 (500 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

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Heptane	142-82-5	TWA: Time weighted average	1,600 mg/m3 (400 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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Heptane	142-82-5	STEL:	2,000 mg/m3	1989	Z1A:US. OSHA
		Short	(500 ppm)		Table Z-1-A (29
		term			CFR 1910.1000)
		exposure			
		limit			

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid, clear

Color : colourless

Odor : hydrocarbon-like

pH : Note: Not applicable

Melting point/range : -90.6 °C

Boiling point/boiling range : 98.4 °C

Flash point : 25 °F (-4 °C)

Method: closed cup

Evaporation rate : ca. 4.00

Method: Compared to Butyl acetate.

Lower explosion limit : 1.05 %(V)

Upper explosion limit : 6.70 %(V)

Vapor pressure : 47.33 hPa

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Vapor density : 3.5 Note: (Air = 1.0)

Density : 0.684 g/cm3 at 20 °C

Water solubility : 0.003 g/l at 25 °C

Ignition temperature : 204 °C

Molecular weight : 100.21 g/mol

## **SECTION 10. STABILITY AND REACTIVITY**

Possibility of hazardous

Conditions to avoid

reactions

: Hazardous polymerisation does not occur.

: Heat, flames and sparks. Keep away from direct sunlight.

Incompatible materials to

avoid

: Oxidizing agents

Phosphorus

Chlorine

May attack many plastics, rubbers and coatings.

Hazardous decomposition

products

: Stable under normal conditions.

In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2)

### **SECTION 11. TOXICOLOGICAL INFORMATION**

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Acute inhalation toxicity : LC50: > 29.29 mg/l , vapour

Exposure time: 4 h

Species: Rat

Method: OECD Test Guideline 403

Note: No deaths

Skin irritation : Result: Irritating to skin.

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity effects**

Toxicity to fish : LC50: 2,940 mg/l

Exposure time: 48 h

Species: Leuciscus idus (Golden orfe)

: LC50: 4.0 mg/l Exposure time: 24 h

Species: Carassius auratus (goldfish)

: LC50: 4,900 mg/l Exposure time: 24 h

Species: Gambusia affinis (Mosquito fish)

Toxicity to daphnia and other

aquatic invertebrates

: static test

EC50: 1.5 mg/l Exposure time: 48 h

Species: Daphnia (water flea)

### Further information on ecology

Additional ecological

information

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

effects in the aquatic environment.

Not inherently biodegradable.

The product can be accumulated in water organisms. Do not flush into surface water or sanitary sewer system.

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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 1206

Proper shipping name : HEPTANES

Class 3
Packing group II
Hazard Labels 3

IATA UN/ID No. : UN 1206

Description of the goods : HEPTANES

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 1206

Description of the goods : HEPTANES

Class : 3
Packaging group : II
Hazard Labels : 3

EmS Number : F-E, S-D Marine pollutant : no

## **SECTION 15. REGULATORY INFORMATION**

### **Inventories**

US. Toxic Substances : On TSCA Inventory

Control Act

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Australia. Industrial

Chemical (Notification and

Assessment) Act

: On the inventory, or in compliance with the inventory

: All components of this product are on the Canadian DSL.

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. Toxic Chemical Control Law (TCCL) List : 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 (NZloC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

# National regulatory information

**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.

SARA 311/312 Hazards : Fire Hazard

> Acute Health Hazard Chronic Health Hazard

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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 : Heptane 142-82-5

New Jersey RTK : Heptane 142-82-5

Pennsylvania RTK : Heptane 142-82-5

### **SECTION 16. OTHER INFORMATION**

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

<sup>\* -</sup> Chronic health hazard

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 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.

SAFETY DATA SHEET	Honeywell
CS207-200 (99% HEPTANE)	
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Version 1.7 Revision Date	06/11/2015 Print Date 08/04/2016
Previous Issue Date: 04/24/2014 Prepared by Honeywell Performance Materials an	d Technologies Product Stewardship Group
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