Honeywell

LP211-204 HEXANE LABORATORY PLUS

000000011372

Version 1.10 Revision Date 07/30/2014 Print Date 02/25/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hexane

MSDS Number : 000000011372

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 : mild hydrocarbon-like

Classification of the substance or mixture

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

Reproductive toxicity, Category 2

Specific target organ toxicity - single exposure, Category 3,

Central nervous system

Specific target organ toxicity - repeated exposure, Category 2,

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Peripheral nervous system, Central nervous system

Aspiration hazard, Category 1

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.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated

exposure.

Precautionary statements : **Prevention**:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

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. Do not breathe 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.

IF exposed or concerned: Get medical advice/ attention.



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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:

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 : C6H14

Chemical nature : Substance

Chemical Name	CAS-No.	Concentration
n-Hexane	110-54-3	>60.00 %
Other Hexanes		<40.00 %

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.

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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

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

: 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.



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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.

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, 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).

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.

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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

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

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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.

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

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.

Exposure Guidelii	nes				
Components	CAS-No.	Value	Control parameters	Upda te	Basis
n-Hexane	110-54-3	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
n-Hexane	110-54-3	TWA:	(E0 ppm)	2008	ACGIH:US. ACGIH
п-пехапе	110-54-5	time weighted average	(50 ppm)	2006	Threshold Limit Values
		15-	1.00	1	
n-Hexane	110-54-3	REL: Recomm ended exposure limit (REL):	180 mg/m3 (50 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards

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n-Hexane	110-54-3	PEL: Permissi ble exposure limit	1,800 mg/m3 (500 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
n-Hexane	110-54-3	TWA : time weighted average	180 mg/m3 (50 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Other Hexanes		TWA: time weighted average	(500 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Other Hexanes		STEL : Short term exposure limit	(1,000 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Other Hexanes		Ceil_Tim e: Ceiling Limit Value and Time Period (if specified) :	1,800 mg/m3 (510 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Other Hexanes		REL: Recomm ended exposure limit (REL):	350 mg/m3 (100 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Other Hexanes		STEL : Short term exposure limit	3,600 mg/m3 (1,000 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)

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Other Hexanes	TWA:	1,800 mg/m3	1989	Z1A:US. OSHA
	time	(500 ppm)		Table Z-1-A (29
	weighted			CFR 1910.1000)
	average			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid, clear

Color : colourless

Odor : mild hydrocarbon-like

pH : Note: not applicable

Melting point/freezing point : -95 °C

Boiling point/boiling range : 68.7 °C

Flash point : -15 °F (-26 °C)

Method: closed cup

Lower explosion limit : 1 %(V)

Upper explosion limit : 7.7 %(V)

Vapor pressure : 165.32 hPa

at 20 °C(68 °F)

Vapor density : 3 Note: (Air = 1.0)

Density : 0.659 - 0.673 g/cm3 at 20 °C

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Water solubility : Note: negligible

Ignition temperature : 225 °C

Molecular weight : 86.18 g/mol

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

Conditions to avoid

reactions

: Hazardous polymerisation does not occur.

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

Incompatible materials to : Oxidizing agents

avoid

Halogens

Oxygen

May attack many plastics, rubbers and coatings.

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 25,000 mg/kg

Species: rat

Test substance: n-Hexane

Acute inhalation toxicity : LC50: 48000 ppm

Exposure time: 4 h

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Species: rat

Test substance: n-Hexane

Acute dermal toxicity : LD50: 3,000 mg/kg

Species: rabbit

Test substance: n-Hexane

Skin irritation : Species: rabbit

Result: irritating

Test substance:n-Hexane

Eye irritation : Species: rabbit

Result: slight irritation Test substance: n-Hexane

Repeated dose toxicity : Species: rat

Application Route: Inhalation

Exposure time: 8 d Test substance: n-Hexane

Note: central nervous system effects structural abnormalities

in sperm 5,000 ppm

Species: rat

Application Route: Oral Exposure time: 90 d

LOAEL (Lowest observed adverse effect level): 1,140 mg/kg

Test substance: n-Hexane

Note: central nervous system effects testicular effects No

observed adverse effect level

Species: rat

Application Route: Oral Exposure time: 90 d

LOAEL (Lowest observed adverse effect level): 4,000 mg/kg

Test substance: n-Hexane

Note: central nervous system effects testicular effects Lowest

observed adverse effect level

: Species: rat

Application Route: Inhalation Test substance: n-Hexane

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Note: Developmental Toxicity NOAEL (maternal toxicity) 1000

ppm NOAEL (developmental toxicity) 5,000 ppm

Genotoxicity in vitro : Test substance: n-Hexane

Note: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test substance: n-Hexane

Note: In vivo tests did not show mutagenic effects

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50: 4.14 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Test substance: n-Hexane

: LC50: 2.5 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Test substance: n-Hexane

: LC50: 4.12 mg/l Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill sunfish)

Test substance: n-Hexane

Toxicity to daphnia and other

aquatic invertebrates

: LC50: 3.87 mg/l

Exposure time: 96 h

Species: Daphnia magna (Water flea)

Test substance: n-Hexane

Further information on ecology

Additional ecological

information

: Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Should not be released into the 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 1208

Proper shipping name : HEXANES

Class 3
Packing group II
Hazard Labels 3

IATA UN/ID No. : UN 1208

Description of the goods : HEXANES

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 1208

Description of the goods : HEXANES

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

Canada. Canadian Environmental Protection

Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian 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

: On the inventory, or in compliance with the inventory

Act

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

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: 5000 lbs

: n-Hexane 110-54-3

SARA 302 Components

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

reporting requirements of SARA Title III, Section 302.

SARA 313 Components

: The following components are subject to reporting levels

established by SARA Title III, Section 313:

: n-Hexane 110-54-3

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SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard

CERCLA Reportable

Quantity

: 5000 lbs

California Prop. 65 : WARNING! This product contains a chemical known to the

State of California to cause cancer.

Benzene 71-43-2

: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

Benzene 71-43-2

Massachusetts RTK : n-Hexane 110-54-3

: Benzene 71-43-2

New Jersey RTK : n-Hexane 110-54-3

: Other Hexanes

Pennsylvania RTK : n-Hexane 110-54-3

: Other Hexanes

WHMIS Classification : B2: Flammable liquid

D2A: Very Toxic Material Causing Other Toxic Effects

This product has been classified according to the hazard criteria

of the CPR and the MSDS contains all of the information

required by the CPR.



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SECTION 16. OTHER INFORMATION

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

* - 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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group