

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hexane

Product Use Description : Solvent

Information of Manufacturer, Supplier :

Company : **BariteWorld.com / Division Of Rockleigh Industries Inc.**

Address : 8 Rockleigh rd, Rockleigh, New Jersey 07647 USA

Emergency call: +1 917-825-3806

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 2
Skin irritation, Category 2
Eye irritation, Category 2
Reproductive toxicity, Category 2
Specific target organ toxicity - single exposure, Category 3, narcotic effect, respiratory tract irritation
Specific target organ toxicity - repeated exposure, Category 1, Central nervous system, Peripheral nervous system
Aspiration hazard, Category 1
Chronic aquatic toxicity, Category 2

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.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness and dizziness.
Suspected of damaging fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

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.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.
 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF exposed or concerned: Get medical advice/ attention.
 Specific treatment (see supplemental first aid instructions on this label).
 Do NOT induce vomiting.
 If skin irritation occurs: Get medical advice/ attention.
 If eye irritation persists: 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.
 Collect spillage.

Storage:
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.

Disposal:
 Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature	: Substance		
Chemical Name		CAS-No.	Concentration
n-Hexane		110-54-3	>60.00 %
n-Hexane			
HEXANE, ISOMERS OTHER THAN N-HEXANE		-	<40.00 %
HEXANE, ISOMERS OTHER THAN N-HEXANE			

Note: Toxic Release Inventory Chemicals

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 mouth to an unconscious person.
- Notes to physician : Treat symptomatically.

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.

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.

Hexane

- 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 and materials for containment and 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).

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.
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
n-Hexane n-Hexane	110-54-3	TWA : time weighted average	180 mg/m ³ (50 ppm)	06 2007	KR OEL:Occupational Exposure Limits Korea

Appropriate engineering controls

Use with local exhaust ventilation.
 Prevent vapour buildup by providing adequate ventilation during and after use.

Individual protection measures, such as personal protective equipment

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.
Hand protection	Solvent-resistant gloves Gloves must be inspected prior to use. Replace when worn.
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
Skin and body protection	Wear as appropriate: Solvent-resistant apron Flame retardant antistatic protective clothing. If splashes are likely to occur, wear: Protective suit
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.
Protective measures	Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid, clear
Colour	: colourless

Odour	: mild hydrocarbon-like
pH	: Note: Not applicable
Melting point / freezing point	: -95 °C
Boiling point/boiling range	: 68.7 °C
Flash point	: -7.6 °F (-22 °C) Method: closed cup
Lower explosion limit	: 1.2 %(V)
Upper explosion limit	: 7.7 %(V)
Vapour pressure	: 165.32 hPa at 20 °C(68 °F)
Vapour density	: 3 Note: (Air = 1.0)
Density	: 0.659 - 0.673 g/cm ³ at 20 °C
Water solubility	: Note: negligible
Ignition temperature	: 225 °C

10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Incompatible materials to avoid	: Oxidizing agents 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 (CO ₂)

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 25,000 mg/kg Species: rat Test substance: n-Hexane
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Hexane

- Acute inhalation toxicity : LC50: 48000 ppm
Exposure time: 4 h
Species: rat
Test substance: n-Hexane
- Acute dermal toxicity : LD50: 3,000 mg/kg
Species: rabbit
Test substance: n-Hexane
- Skin corrosion/irritation : Species: rabbit
Result: irritating
Test substance:n-Hexane
- Serious eye damage/eye irritation : Species: rabbit
Result: irritating
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
SAFETY DATA SHEET
Hexane (211, 212, 213, 214, 215, 216, 217, 218, 219)
00000011372
Version 1.0 0 Issuing date 04/17/2012
Revision Date 04/17/2012 Print Date 07/13/2016
9/12
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
Note: Developmental Toxicity NOAEL (maternal toxicity) 1000 ppm
NOAEL (developmental toxicity) 5,000 ppm
- Germ cell mutagenicity : Test substance: n-Hexane
Note: In vitro tests did not show mutagenic effects
- Germ cell mutagenicity : Test substance: n-Hexane
Note: In vivo tests did not show mutagenic effects

12. ECOLOGICAL INFORMATION

Toxicity

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

Other adverse effects

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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13. DISPOSAL CONSIDERATIONS

Disposal methods	:	In accordance with local and national regulations.
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14. TRANSPORT INFORMATION

IATA

UN/ID No.	:	UN 1208
Description of the goods	:	Hexanes
Class	:	3
Packing group	:	II
Labels	:	3
Packing instruction (cargo aircraft)	:	364

Hexane

Packing instruction (passenger aircraft) : 353
Packing instruction (passenger aircraft) : Y341

IMDG

UN/ID No. : UN 1208
Description of the goods : HEXANES
Class : 3
Packing group : II
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-D
Marine pollutant : no

15. REGULATORY INFORMATION

National regulatory information

Dangerous Substances Safety Management Act: : Class 4: Flammable liquid. Type 1 petroleum
Component : n-Hexane 110-54-3

Other international regulations

Notification status US. Toxic Substances Control Act : On TSCA Inventory
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). (Can. Gaz. Part II, Vol. 144) : All components of this product are on the Canadian DSL list.
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

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China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

NZIOC - New Zealand : On the inventory, or in compliance with the inventory

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.

References and Sources for Data

Globally Harmonized System of classification and labelling of chemicals(GHS), First revised edition, United Nations.

United States National Library of Medicine.

EINECS (European Inventory of Existing Commercial chemical Substances)

Honeywell International Inc.

Originated Date

2010. 07. 10

Revision number and date

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