

KWIK-KLEEN 200

Revision Date 2014-01-15

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information

Trade name : KWIK-KLEEN 200

Material A HIGHLY PURIFIED FORM OF n-Heptane (Pure Grade)

*NOTE: NON HAZARDOUS COMPONENTS ARE NOT

LISTED.

AMERICAN NIAGARA

Company

6690 Jones Mill Court - Bldgs. A,B,C Norcross, Georgia 30092 USA Ph 770-441-5900 / Fx 770-409-7259 CHEMTREC 800-424-9300 USA

Emergency telephone: 703-741-5500 (INTERNATIONAL)

E-mail address

Website

Responsible Department : WWW.AMERICAN-NIAGARA.COM

SECTION 2: Hazards identification

Emergency Overview

Form: Liquid Physical state: Liquid Color: Clear Odor: Sweet **OSHA Hazards** : Flammable Liquid, Moderate skin irritant

GHS Classification

: Aspiration hazard, Category 1 Flammable liquids, Category 2 Skin irritation, Category 2

Specific target organ systemic toxicity - single exposure,

Category 3, Central nervous system Acute aquatic toxicity, Category 1 Chronic aquatic toxicity, Category 1

GHS-Labeling

MSDS Number: 100000067062 1/13

Version 1.8 Revision Date 2014-01-15

Symbol(s)









Signal Word : Danger

Hazard Statements : H225: Highly flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces.

- No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

P304 + P340: IF INHALED: Remove victim to fresh air and

keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/ physician if you

feel unwell.

P321: Specific treatment (see supplemental first aid

instructions on this label).

P331: Do NOT induce vomiting.

P332 + P313: If skin irritation occurs: Get medical advice/

attention.

P362: Take off contaminated clothing and wash before reuse. P370 + P378: In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam for extinction.

P391: Collect spillage.

Storage:

P403 + P233: Store in a well-ventilated place. Keep container

tightly closed.

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/ container to an approved waste

disposal plant.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

MSDS Number:100000067062 2/13

KWIK-KLEEN 200

Version 1.8 Revision Date 2014-01-15

human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen

by ACGIH.

SECTION 3: Composition/information on ingredients

Synonyms : Normal Heptane

Dipropilmetano n-Heptane, 99%

Molecular formula : C7H16

Component	CAS-No.	Weight %
n-Heptane	142-82-5	100

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Symptoms of poisoning may

appear several hours later. Do not leave the victim

unattended.

If inhaled : Move to fresh air. If unconscious place in recovery position

and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well

with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Do not

give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to

hospital.

SECTION 5: Firefighting measures

Flash point : $-4 \,^{\circ}\text{C} (25 \,^{\circ}\text{F})$

Method: Tag closed cup

Autoignition temperature : 203.85 °C (398.93 °F)

Suitable extinguishing

media

: Dry chemical. Carbon dioxide (CO2). Alcohol-resistant foam.

Unsuitable extinguishing : High volume water jet.

MSDS Number:100000067062 3/13

Version 1.8 Revision Date 2014-01-15

media

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case

of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed

containers.

Fire and explosion

protection

: Do not spray on an open flame or any other incandescent material. Use only explosion-proof equipment. Take

necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open

flames, hot surfaces and sources of ignition.

Hazardous decomposition

products

: Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low

areas.

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

Methods for cleaning up : 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

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid

exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with

local and national regulations.

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. Review all operations, which have the

4/13

MSDS Number:100000067062

Version 1.8 Revision Date 2014-01-15

potential to generating and accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106 "Flammable and Combustible Liquids"; National Fire Protection Association (NFPA 77), "Recommended Practice on Static Electricity"; and/or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising Out of Static, Lightning, and stray Currents".

Advice on protection against fire and explosion

Do not spray on an open flame or any other incandescent material. Use only explosion-proof equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

Ingredients	Basis	Value	Control parameters	Note
n-Heptane	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	OSHA Z-1-A	STEL	500 ppm, 2,000 mg/m3	
	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	

⁽b) The value in mg/m3 is approximate.

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : \

Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not

MSDS Number:100000067062

5/13

KWIK-KLEEN 200

Version 1.8 Revision Date 2014-01-15

known, or other circumstances where air-purifying respirators

may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

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

Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form : Liquid
Physical state : Liquid
Color : Clear
Odor : Sweet

Safety data

Flash point : $-4 \,^{\circ}\text{C} (25 \,^{\circ}\text{F})$

Method: Tag closed cup

Lower explosion limit : 1 %(V)

Upper explosion limit : 7 %(V)

Oxidizing properties : no

Autoignition temperature : 203.85 °C (398.93 °F)

Molecular formula : C7H16

Molecular Weight : 100.23 g/mol

pH : Not applicable

Pour point : No data available

Boiling point/boiling range : 98 °C (208 °F)

Vapor pressure : 1.60 PSI

at 38 °C (100 °F)

MSDS Number:100000067062 6/13

KWIK-KLEEN 200

Revision Date 2014-01-15 Version 1.8

: 0.69, 16 °C(61 °F) Relative density

: Negligible Water solubility

Partition coefficient: n-

octanol/water

: No data available

Relative vapor density : 3.4

(Air = 1.0)

Evaporation rate : 3.46

Percent volatile : > 99 %

Other information

Conductivity : < 1 pSm

at 20 °C

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Conditions to avoid : Not applicable.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute oral toxicity

: LD50: > 5,000 mg/kgn-Heptane

Species: rat

Method: OECD Test Guideline 401

Information given is based on data obtained from similar

substances.

Acute inhalation toxicity

: LC50: > 29.29 mg/l n-Heptane

Exposure time: 4 h

Species: rat

Sex: male and female Test atmosphere: vapor

Method: OECD Test Guideline 403

Acute dermal toxicity

MSDS Number:100000067062 7/13

KWIK-KLEEN 200

Version 1.8 Revision Date 2014-01-15

n-Heptane : LD50: > 2,000 mg/kg

Species: rabbit Sex: male and female

Method: OECD Test Guideline 402

Information given is based on data obtained from similar

substances.

n-Heptane (Pure Grade)

Skin irritation : Irritating to skin.

May cause skin irritation in susceptible persons.

n-Heptane (Pure Grade)

Eye irritation: Vapors may cause irritation to the eyes, respiratory system

and the skin.

Sensitization

n-Heptane : Did not cause sensitization on laboratory animals.

Information given is based on data obtained from similar

substances.

Repeated dose toxicity

n-Heptane : Species: rat, male

Sex: male

Application Route: Inhalation

Dose: 12.47 mg/l Exposure time: 16 wk

Number of exposures: 12 h/d, 7 d/wk

NOEL: 12.47 mg/l

No adverse effect has been observed in chronic toxicity tests.

Reproductive toxicity

n-Heptane : Species: rat

Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm Number of exposures: 6 hr/d, 5 d/wk

Test period: 13 wk

Method: OECD Test Guideline 416

NOAEL Parent: 9000 ppm NOAEL F1: 3000 ppm NOAEL F2: 3000 ppm

Developmental Toxicity

n-Heptane : Species: rat

Application Route: Inhalation
Dose: 0, 900, 3000, 9000 ppm
Exposure time: GD6-15
Number of exposures: 6 hrs/d
NOAEL Teratogenicity: 9000 ppm
NOAEL Maternal: 3000 ppm

n-Heptane (Pure Grade)

Aspiration toxicity : May be fatal if swallowed and enters airways.

Substances known to cause human aspiration toxicity hazards

MSDS Number:100000067062 8/13

KWIK-KLEEN 200

Version 1.8 Revision Date 2014-01-15

or to be regarded as if they cause human aspiration toxicity

hazard.

CMR effects

n-Heptane : Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures

did not show mutagenic effects.

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: No toxicity to reproduction

n-Heptane (Pure Grade)

Further information : Concentrations substantially above the TLV value may cause

narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish

n-Heptane : LL50: 1.284 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: QSAR

LC50: 375 mg/l Exposure time: 96 h

Species: Tilapia mosambica (Fish)

Toxicity to daphnia and other aquatic invertebrates

n-Heptane : EC50: 1.5 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Toxic to aquatic organisms.

LC50: 0.1 mg/l Exposure time: 96 h

Species: Mysidopsis bahia (mysid shrimp) semi-static test Very toxic to aquatic organisms.

Toxicity to algae

n-Heptane : EL50: 4.338 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata

Method: QSAR

Biodegradability

n-Heptane : Result: Readily biodegradable.

70 %

MSDS Number:100000067062 9/13

KWIK-KLEEN 200

Version 1.8 Revision Date 2014-01-15

Testing period: 10 d

Results of PBT assessment

n-Heptane : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

The information in this MSDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : The product should not be allowed to enter drains, water

courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed

waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers. Do not burn, or use a cutting

torch on, the empty drum.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN1206, HEPTANES, 3, II

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1206, HEPTANES, 3, II, (-4 °C), MARINE POLLUTANT, (N-HEPTANE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1206, HEPTANES, 3, II

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN1206, HEPTANES, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (N-HEPTANE)

MSDS Number:100000067062 10/13

Version 1.8 Revision Date 2014-01-15

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

UN1206, HEPTANES, 3, II, ENVIRONMENTALLY HAZARDOUS, (N-HEPTANE)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN1206, HEPTANES, 3, II, ENVIRONMENTALLY HAZARDOUS, (N-HEPTANE)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

CERCLA Reportable

Quantity

: This material does not contain any components with a CERCLA

RQ.

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

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

reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Ingredients : SARA 313: 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.

Clean Air Act

MSDS Number:100000067062 11/13

KWIK-KLEEN 200

Version 1.8 Revision Date 2014-01-15

Ozone-Depletion

Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations

Pennsylvania Right To Know

: n-Heptane - 142-82-5

New Jersey Right To Know

: n-Heptane - 142-82-5

California Prop. 65

Ingredients

: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive

defects.

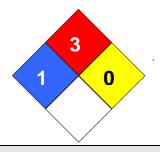
Notification status

Europe REACH On the inventory, or in compliance with the inventory United States of America TSCA On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Canada DSL On the inventory, or in compliance with the inventory Australia AICS New Zealand NZIoC On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Japan ENCS Korea KECI On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Philippines PICCS On the inventory, or in compliance with the inventory China IECSC

SECTION 16: Other information

NFPA Classification : Health Hazard: 1

Fire Hazard: 3 Reactivity Hazard: 0



MSDS Number: 100000067062 12/13

Version 1.8 Revision Date 2014-01-15

Further information

Legacy MSDS Number : 133

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

The information in this MSDS pertains only to the product as shipped.

The information provided in this Material 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.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%	
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level	
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency	
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health	
CNS	Central Nervous System	NTP	National Toxicology Program	
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals	
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level	
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration	
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration	
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit	
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances	
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic	
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act	
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit	
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.	
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value	
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average	
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act	
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials	
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System	
LC50	Lethal Concentration 50%			

MSDS Number:100000067062 13/13