

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixtures
Product name	: NARK20013 Ephedrine Reagent
Product code	: NARK20013
1.2. Recommended use and restrictio	ns on use
Use of the substance/mixture	: Crime Scene Investigation
1.3. Supplier	
SIRCHIE 100 Hunter Place Youngsville, NC 27596 - USA T 919-554-2244; 800-356-7311 - F 919-554-2 http://www.sirchie.com	266; 800-899-8181
1.4. Emergency telephone number	
Emergency number	: 1.800.424.9300 CHEMTREC: 1.800.424.9300
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance o	r mixture
GHS-US classification	
Flammable liquids H226	Flammable liquid and vapor
Category 3 Skin corrosion/irritation H315	Causes skin irritation
Category 2 Serious eye damage/eye H319 irritation Category 2A	Causes serious eye irritation
Full text of H statements : see section 16	
2.2. GHS Label elements, including p	recautionary statements
GHS-US labeling	
Hazard pictograms (GHS-US)	\wedge
	$\mathbf{\underline{C}}$
Signal word (CLIS LIS)	GHS02 GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking P233 - Keep container tightly closed P264 - Wash all exposed skin thoroughly after handling P280 - Wear eye protection, protective gloves P302+P352 - If on skin: Wash with plenty of water P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P321 - Specific treatment (see information on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P370+P378 - In case of fire: Use CO2, dry chemical, foam, water spray to extinguish P403+P235 - Store in a well-ventilated place. Keep cool P501 - Dispose of contents/container to local/regional/national/international regulations
2.3. Other hazards which do not result	t in classification
Other hazards not contributing to the classification	: None under normal conditions.

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
AQUA	(CAS No) 7732-18-5	96.32	Not classified
sodium hydroxide	(CAS No) 1310-73-2	2.24	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
acetic acid	(CAS No) 64-19-7	0.72	Flam. Liq. 3, H226 Skin Corr. 1A, H314
copper(II)sulfate	(CAS No) 7758-98-7	0.72	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effec	ts (acute and delayed)
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Immediate medical attention and spe	ecial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	ing media
Suitable extinguishing media	: Carbon dioxide. Dry chemical powder. Foam. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from the ch	emical
Fire hazard	: Flammable.
Explosion hazard	: No data available on direct explosion hazard.
Reactivity	: No data available.
5.3. Special protective equipment and pr	ecautions for fire-fighters
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	Jipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3.	Methods and material for containme	ent	and cleaning up
Methods	for cleaning up	:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2.	Conditions for safe storage, includir	ng any incompatibilities
Storage	conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompa	atible products	: Strong bases. Strong acids.
Incompa	atible materials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

acetic acid (64-19-7)			
ACGIH	ACGIH TWA (ppm)	10 ppm (Acetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)	
ACGIH	ACGIH STEL (ppm)	15 ppm (Acetic acid; USA; Short time value; TLV - Adopted Value)	
copper(II)sulfate (7758-98-7)		
Not applicable			
AQUA (7732-18-5)			
Not applicable			
sodium hydroxide (1310-73-2)			
ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³ (Sodium hydroxide; USA; Momentary value; TLV - Adopted Value)	

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses.

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses



Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: Vinegar odour
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	

SECTION 10: Stability and reactivity
10.1. Reactivity
No data available.
10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of hazardous reactions
No reactivity hazard other than the effects described in sub-sections below.
10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials
Strong acids. Strong bases.
10.6. Hazardous decomposition products
fume. Carbon monoxide. Carbon dioxide.
SECTION 11: Toxicological information
11.1. Information on toxicological effects

Acute toxicity	: Not classified
acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg body weight (Rat; Other; Read-across)
ATE US (oral)	3310.000 mg/kg body weight

SECTION 12: Ecological information

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copper(II)sulfate (7758-98-7)	
LD50 oral rat	300 mg/kg (Rat)
LD50 dermal rabbit	> 1000 mg/kg (Rabbit)
ATE US (oral)	300.000 mg/kg body weight
sodium hydroxide (1310-73-2)	
ATE US (oral)	500.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

copper(II)sulfate (7758-98-7)	
LC50 fish 1	0.0199 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.01 mg/l (EC50; 48 h)
•	
sodium hydroxide (1310-73-2) LC50 fish 1	45.4 mg/l (LC50; Other; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)
2.2. Persistence and degradability	
NARK20013 Ephedrine Reagent	
Persistence and degradability	Not established.
acetic acid (64-19-7)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 0.74 g O₂/g substance
Chemical oxygen demand (COD)	1.03 g O₂/g substance
ThOD	1.07 g O₂/g substance
copper(II)sulfate (7758-98-7)	
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
sodium hydroxide (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

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DOT Special Provisions (49 CFR 172.102)	:	15 - This entry applies to Chemical kits and First aid kits containing one or more compatible items of hazardous materials in boxes, cases, etc. that are used for medical, analytical, diagnostic or testing purposes. For transportation by aircraft, materials forbidden for transportation by passenger aircraft or cargo aircraft may not be included in the kits. Chemical kits and first aid kits are excepted from the specification packaging requirements of this subchapter when packaged in combination packaging. Chemical kits and first aid kits are also excepted from the labeling and placarding requirements of this subchapter, except when offered for transportation or transported by air. Chemical and first aid kits may be transported in accordance with the consumer commodity and ORM exceptions in 173.156, provided they meet all required conditions. Kits that are carried on board transport vehicles for first aid or operating purposes are not subject to the requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	161
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	10 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	10 kg
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	:	No supplementary information available.

TDG

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information				
15.1. US Federal regulations				
NARK20013 Ephedrine Reagent				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				

15.2. International regulations

CANADA No additional information available

EU-Regulations No additional information available

National regulations No additional information available

15.3. US State regulations No additional information available

Data sources	 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.
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Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.
Full text of H-phrases:	
H226	Flammable liquid and vapor
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS III Rating	\checkmark
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal Protection	: G G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.