

SECTION 1: Identification

Identification

Product form : Mixtures

Product name : NARK20012 Talwin Reagent

Product code NARK20012

Recommended use and restrictions on use

Use of the substance/mixture : Crime Scene Investigation

Supplier

SIRCHIE

100 Hunter Place

Youngsville, NC 27596 - USA

T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181

http://www.sirchie.com

1.4. **Emergency telephone number**

Emergency number 1.800.424.9300

CHEMTREC: 1.800.424.9300

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Oxidizing liquids Category H272 May intensify fire; oxidizer

Skin corrosion/irritation H314 Causes severe skin burns and eye damage

Category 1A

Full text of H statements: see section 16

GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS03

Signal word (GHS-US) : Danger

: H272 - May intensify fire; oxidizer Hazard statements (GHS-US)

H314 - Causes severe skin burns and eye damage

: P210 - Keep away from hot surfaces, open flames. - No smoking Precautionary statements (GHS-US)

P220 - Keep/Store away from combustibles

P221 - Take any precaution to avoid mixing with combustibles/...

P260 - Do not breathe fume, vapors

P264 - Wash all exposed skin thoroughly after handling

P280 - Wear eye protection, protective gloves

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a doctor

P321 - Specific treatment (see information on this label) P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use ABC-powder to extinguish

P405 - Store locked up

P501 - Dispose of contents/container to local/regional/national/international regulations

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Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	GHS-US classification
sulfuric acid	(CAS No) 7664-93-9	71.568	Skin Corr. 1A, H314 Carc. 1A, H350
AQUA	(CAS No) 7732-18-5	26.6672	Not classified
nitric acid	(CAS No) 7697-37-2	1.3328	Ox. Liq. 3, H272 Skin Corr. 1A, H314 Eye Dam. 1, H318

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

SECTION 4: First-aid measures

Description of first aid measures 4.1.

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)

: Allow victim to breathe fresh air. Allow the victim to rest. First-aid measures after inhalation

Remove affected clothing and wash all exposed skin area with mild soap and water, followed First-aid measures after skin contact

by warm water rinse.

First-aid measures after eye contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media 5.1.

Suitable extinguishing media : Carbon dioxide. Dry chemical powder. Foam. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Specific hazards arising from the chemical

Explosion hazard : No data available on direct explosion hazard.

: No data available. Reactivity

5.3. Special protective equipment and precautions 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 measures

6.1. Personal precautions, protective equipment 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.

6.2. **Environmental precautions**

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

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Methods and material for containment 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.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Precautions for safe handling

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

Conditions for safe storage, including 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.

Incompatible products : Strong bases. Strong acids. Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

Control parameters

sulfuric acid (7664-93-9)			
ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³ (Sulfuric acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Thoracic fraction)	
nitric acid (7697-37-2)			
ACGIH	ACGIH TWA (ppm)	2 ppm (Nitric acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)	
ACGIH	ACGIH STEL (ppm)	4 ppm (Nitric acid; USA; Short time value; TLV - Adopted Value)	
AQUA (7732-18-5)			
Not applicable			

Appropriate engineering controls

No additional information available

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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid

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: Clear, colorless liquid. **Appearance**

Color : Colorless

Odor Irritating/pungent odour Odor threshold No data available рН : No data available Melting point No data available Freezing point : No data available : No data available Boiling point 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 : No data available Decomposition temperature Viscosity, kinematic No data available Viscosity, dynamic : No data available **Explosion limits** No data available

Explosive properties : No data available : No data available Oxidizing properties

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

Chemical stability

Stable under recommended handling and storage conditions (see section 7).

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.

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

sulfuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg body weight (Rat; Experimental value)
ATE US (oral)	2140.000 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Not classified Respiratory or skin sensitization Not classified

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Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

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 Additional information
 Sulfuric acid is only classified carcinogenic in mist form with long exposure. This does not apply to this product.

 sulfuric acid (7664-93-9)
 IARC group

 1 - Carcinogenic to humans

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.

SECTION 12: Ecological information

12.1. Toxicity

sulfuric acid (7664-93-9)		
LC50 fish 1	42 mg/l (LC50; 96 h)	
EC50 Daphnia 1	29 mg/l (EC50; 24 h)	
nitric acid (7697-37-2)		
EC50 Daphnia 1	180 mg/l (EC50; 48 h)	
LC50 fish 2	72 ppm (LC50; 96 h)	
Threshold limit algae 1	> 19 mg/l (EC0)	

12.2. Persistence and degradability

NARK20012 Talwin Reagent		
Persistence and degradability	Not established.	
sulfuric acid (7664-93-9)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
nitric acid (7697-37-2)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

12.3. Bioaccumulative potential

NARK20012 Talwin Reagent	
Bioaccumulative potential	Not established.
sulfuric acid (7664-93-9)	
Log Pow	-2.2 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.
nitric acid (7697-37-2)	
BCF fish 1	<= 1 (BCF)
Log Pow	-2.3 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)

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nitric acid (7697-37-2)	
Bioaccumulative potential	Bioaccumulation: not applicable.

Mobility in soil 12.4.

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known effects from this product. **GWPmix** comment : No known effects from this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

: Avoid release to the environment. Ecology - waste materials

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3316 Chemical kits, 9, II

UN-No.(DOT) : UN3316 Proper Shipping Name (DOT) : Chemical kits

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Packing group (DOT) : II - Medium Danger

: 9 - Class 9 (Miscellaneous dangerous materials) Hazard labels (DOT)



DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Special Provisions (49 CFR 172.102)

: 161

: 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) DOT Quantity Limitations Passenger aircraft/rail : 10 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 10 kg

CFR 175.75)

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a **DOT Vessel Stowage Location**

passenger vessel.

Other information : No supplementary information available.

TDG

Transport by sea

Not applicable

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Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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Subject to reporting requirements of United States SARA Section 313 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

NARK20012 Talwin Reagent

Listed as carcinogen on NTP (National Toxicology Program) Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

Total Go Grato regulations	
NARK20012 Talwin Reagent	
U.S California - Proposition 65 - Carcinogens List	Yes
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

SECTION 16: Other information

SECTION TO. Other information	
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.
Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

Full text of H-phrases:

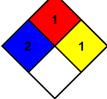
H272	May intensify fire; oxidizer
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H350	May cause cancer

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NFPA health hazard	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 	
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.	
NFPA reactivity	 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with 	



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

some release of energy, but not violently.

solids and semi solids having a flash point above 200 F. (Class IIIB)

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 : 0

G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

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