NARTEC, Inc.

Duquenois-Levine Reagent for MH-21 Kit

Safety Data Sheet

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

1.1 Product Identifier

Product Form: Mixtures
Product Name: Duquenois-Levine Reagent for MH-21 Kit (Marijuana/Hashish)
Product Code: MH-21

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Laboratory chemical

1.3 Details of the supplier of the safety data sheet

NARTEC, Inc.
1001 N. Hawks Perch
Nixa, MO 65714

Phone: 417-587-3340
http://www.nartec.com
aware@nartec.com

1.4 Emergency telephone number

Emergency number: 1-800-424-9300

SECTION 2: Hazards identification

2.1 Emergency Overview

Irritation of the eyes, nose, and throat. Splashes in the eyes or on the skin will cause severe burns. Inhalation of acid vapors may be Injurious to the lungs. Repeated or prolonged exposure to dilute solutions of the acid may cause irritation of the skin. Repeated or Prolonged exposure to mists or vapors of Sulfuric Acid may cause erosion of teeth. Chronic irritation of the eyes, or chronic inflammation of the nose, throat, and bronchial tubes.

2.2 Potential Health Effects

Inhalation:

Irritation of throat. Inhalation of vapors may be injurious to the lungs and with repeated in halation chronic irritation/inflammation of the nose, throat, and bronchial tubes.

Skin:

Irritation and or burns by direct contact. Delayed onset contact dermatitis is also possible with chronic repeated exposure to Reagent A chemicals.

Eyes:

Chronic irritation of eyes, corneal burns are possible with exposure to Sulfuric Acid (Reagent B)

Ingestion:

Severe irritation and ulceration of the gastrointestinal tract. Vomiting and diarrhea are also symptoms.

Carcinogenicity:

NTP? Yes – Acetaldehyde IARC Monographs? Yes, 75-07-0 OSHA Regulated? No

California, Prop.65?	Yes CAS #75-07-0 (Acetaldehyde) are known carcinogens listed in the state of California
ESIS?	Yes CAS #75-07-0 EINECS #200-836-8 Acetaldehyde=Limited evidence of carcinogenic effect.

SECTION 3: Hazardous Ingredients

3.1

NAME	Product Identifier	%
Sulfuric Acid (B)	(CAS No) 7664-93-9	60
Water (B)	7732-18-5	30
Ethanol (A)	64-17-5	90.3
Vanillin (A)	121-33-5	2.4
Acetaldehyde (A)	75-07-0	

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 after inhalation: Assure fresh air breathing. Allow the victim to rest.

First-aid after skin contact: Remove affected clothing and wash all exposed skin with mild soap and water. Follow with a warm water rinse.

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

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

4.2 Most important symptoms and effects, both acute and delayed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry powder, carbon dioxide, water spray, or sand

Unsuitable extinguishing media: Do not use heavy water stream.

5.2 Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1 Steps to be taken in case material is released or spilled

Wear protective equipment; ventilate area; cover Sulfuric Acid spill with sodium carbonate (backing soda). Add water if necessary to form a slurry. Scoop up slurry. Can use ODV part number 910 soda ash.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Store and handle according to packaged instructions. Store in cool, well ventilated area. Keep away from reactive materials. Avoid breathing vapor and prevent accumulation in enclosed area.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazardous Components	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Ethanol (A)	1000	1900			1000		1000	1900
Vanillin (A)	NE			NE		2		NE
Acetaldehyde (A)	25		2000 IDLH		25 Ceiling		200	360

*See Sulfuric Acid SDS for specific information on Reagent B (60% sulfuric acid)

8.2 Exposure controls

Personal protective equipment: Avoid all unnecessary exposure. Gloves, safety glasses, gas mask.



Hand protection: Wear protective gloves : neoprene or nitrile gloves.
Eye protection: Chemical goggles or safety glasses
Respiratory protection: Wear appropriate mask
Other information: Do not eat, drink, or smoke during use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State: Liquid
Appearance: Clear liquid
Color: Colorless
Solubility: Soluble in water

SECTION 10: Stability and reactivity

10.1 Stability

Stable

10.2 Conditions to Avoid

Excessive heat, light exposure, contact with incompatible materials.

SECTION 11: Toxicological information

11.1 Toxicological Information

Hazardous Components	CAS # / EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Ethanol (A)	64-17-5 200-578-6	3450 mg/kg (oral/mouse)	NE
Vanillin (A)	121-33-5 204-465-2	Oral, rat: LD50 = 1580 mg/kg	NE
Acetaldehyde (A)	75-07-0 200-836-8	Oral, rat: LD50 = 661 mg/kg	Inhalation, rat: LC50 = 13300 ppm/4H

*See Sulfuric Acid SDS for specific information on Reagent B (60% sulfuric acid)

SECTION 12: Ecological information

12.1 Toxicity

Harmful to environment in large quantities. Chloroform may bio accumulate in soil, water, and organisms.

SECTION 13: Disposal considerations

13.1 Waste disposal methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulators to ensure complete and accurate classifications.

SECTION 14: Transportation information

Ground Shipment within USA (DOT)

Proper Shipping name:	None-Exempted Qty.
Class/Pack Group/ Labeling:	Class 3(8) with Excepted Qty. marking on package. No class 3 or 8 label required.
Notes:	When shipped under 49CFR173.4a, this product is exempt from other labeling and waybill requirements.

AIR Shipments (ICAO/IATA):

Proper Shipping name:	None
Class/Pack Group/ Labeling:	Class 3(8) with Excepted Qty. marking on package. No class 3 or 8 label required.
Notes:	This product is exempt from other labeling and waybill requirements.

Ocean Shipments (IMDG):

Proper Shipping name:	None
Class/Pack Group/ Labeling:	Class 3(8) with Excepted Qty. marking on package. No class 3 or 8 label required.
Notes:	Shipping paper required with statement “Dangerous Goods in Excepted Quantities” and number of packages.

All Shipments Exceeding Excepted Quantity / Alternative Shipping Information:

Proper Shipping name:	UN 3316, Chemical Kit
Class/Pack Group/ Labeling:	Class 9, Pack Group 111. Miscellaneous Label
Notes:	Full Document Required



14.3 Additional Information

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100-177, IMDG, IATA, TDG & UN information manuals for detailed regulations and exceptions covering Specific container sizes, packaging materials and methods of shipping. Information above does not account for overpacks or outer packagings with multiple hazardous materials; consult shipper when multiple materials are shipped. Consult regulations for maximum out packaging and overpack requirements.

SECTION 15: Regulatory information

TSCA (USA – Toxic Substance Control Act): Ingredients are Listed.
SARA Title 111 (USA – Superfund Amendments and Reauthorizations Act):

Acute Health:	Yes	Chronic Health:	Yes	Reactive:	No
Fire:	No	Sudden Release of Pressure:		No	

313 Reportable Ingredients:
This material contains Sufluric Acid (CAS#7664-93-9) and Acetaldehyde (CAS#75-07-0) which are subject to reporting requirements of Section 313 of SARA Title 111 & 40 CFR Part 373.
CERCLA (USA – Comprehensive Response Compensation and Liability Act): CAS#75-07-0: 1000 lb final RQ; 454 kg final RQ.
CAS#7647-01-0: 5000 lb final RQ; 2270 kg final RQ.
CCPR (Canadian Controlled Products Regulation): Not Listed
California Prop 65, Safe drinking water and toxic enforcement act of 1986: WARNING! This product contains a chemical known to the

State of California to cause cancer. Acetaldehyde.
State Right to Know: Acetaldehyde: MA, NJ, PA. ; Ethanol MA, NJ, PA, RI.
CIDL (Canadian Ingredient Disclosure List): Not Listed
CDSL / NDSL (Canadian Domestic Substance List / Non-Domestic Substance List): Listed on DSL

Risk Phrases:
R11: Highly Flammable
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed
R23: Toxic by inhalation
R32: Contact with acids liberates very toxic gas
R35: Causes severe burns
R37: Irritating to respiratory system
R38: Irritating to skin
R40: Limited evidence of a carcinogenic effect.



T: Toxic



C): Corrosive



F: Highly Flammable



Xn: Harmful

SECTION 16: Other Information

Legend: N/A = Not Applicable N/D = Not Determined N/E = Not Established N/R = Not Reported

HMIS Hazard Ratings:		
Healthy:	3	0 = Insignificant
Flammability:	0	1 = Slight
Physical Hazard:	0	2 = Moderate
Personal Protective Equipment:	H	3 = High
		4 = Extreme

SDS Prepared by:
NARTEC, Inc.
3/14/18

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