

Identification

GHS Product Identifier

Product Name: **Dropit-Hippurate Reagent** Catolog Number: **K982311, K882311**

Other means of identification

Hippurate Reagent

Recommended use of the chemical and restriction on use

For invitro diagnostic use only by trained professionals.

Supplier's details

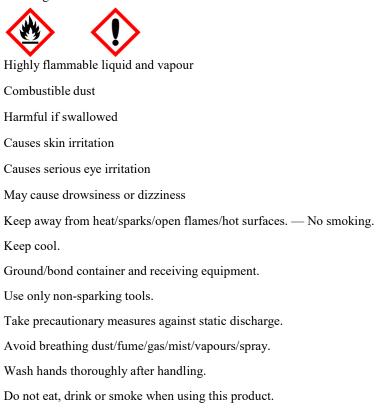
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2 Hazard(s) identification

GHS label elements

Warning



Safety Data Sheet

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse mouth.

If skin irritation occurs: Get medical advice/attention.

IF eye irritation persists: Get medical advice/attention.

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Take offcontaminated clothing and wash before reuse.

In case of fire: Use Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

Other hazards which do not result in classification

Rapidly absorbed through skin.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Ninhydrin	485-47-2	207-618-1	11 - 11.11	
Dimethyl sulfoxide	67-68-5	200-664-3	88 - 88.89	
Isopropyl Alcohol 91%	67-63-0		50	

4 First-aid measures

Description of necessary first-aid measures				
General:	In all cases of doubt or when sympoms persist, seek medical attention.			
EYES:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.			
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.			
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artifical respiration. Consult a physician.			
Skin:	Wash with plenty of soap and water. Consult a physician.			
Fire-fighting measu	ires			

Suitable extinguishing media

5

Use alcohol-resistant foam, dry chemical or CO2, powder, water fog. Do not use water jet.

Specific hazards arising from the chemical

Hazardous decomposition: Burning may produce carbon monozide and carbon dioxide contamination.
Keep away from heat / sparks /open flames / hot surfaces - no smoking.
Keep cool.
Ground / bond container and receiving equipment.
Use explosion-proof electrical / ventilating / light / equipmant.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust / fumes / gas / mist /vapors / spray.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting. dilution of burning liquid with water will affect extinguishment.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear lab coat, gloves, and safety glasses. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and materials for containment and cleaning up

Eliminate all sources of ignition. Small spills should be flushed with large quantities of water. Larger spills should be collected for disposal.

7 Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid inhalation of vapor or mist. Keep away from sources of ignition-no smoking. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Take measures to prevent build up of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

8 Exposure controls/personal protection

Control parameters	
USA Workplace Environmental Exposure Levels (WEEL):	Dimethyl sulfoxide CAS# 67-68-5
	TWA Control parameters 250 ppm.
USA Workplace Environmental Experies Lovels (WEEL):	Isopropul Alcohol
USA Workplace Environmental Exposure Levels (WEEL):	Isopropyl Alcohol CAS# 67-63-0
	TWA Control parameters 400 ppm.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the day.

Individual protection measures				
Eye/face protection:	Safety glasses with side shields comforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN (EU).			
Skin protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.			
Body Protection:	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.			
Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).			

9 Physical and chemical properties

Physical and chemical properties	
Appearance:	Form: Liquid Color: Yellow
Odor:	Mild sulfurous
Odor Threshhold:	No data available
pH:	No data available
Melting point/freezing point:	Range -32 to -50C
Melting point:	No data available
Flash point:	57 ° C -TCC
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability/explosion limits:	Upper explosion limit: 2.0 Lower explosion limit: 12.0
Vapor pressure:	No data available
Vapor density:	No data available

	Relative density:	No data available	
	Water solubility:	Completely miscible	
	Partition coefficient (n-octal/water):	No data available	
	Auto-ignition temperature:	No data available	
	Decomposition temperature:	No data available	
	Viscosity:	No data available	
	Explosive properties:	Not explosive	
	Other safety information		
	Solubility in other solvents:	Alcohol-soluble	
	Surface tension:	No data available	
	Relative vapor density:	No data available	
10	Stability and reactivity		
	Reactivity		
	Hazardous Polymerization will not occur.		
	Chemical stability		
	Stable under recommended storage conditions		
	Possibility of hazardous reactions		
	No data available		
	Conditions to avoid		
	Heat, flames, and sparks		
	Incompatible materials		
	Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents		
	Hazardous decomposition products		
	Hazardous decomposition products formed under fire conditions-Carbon oxides, Sulphur oxides. Other decomposition products: No data available In the event of fire: see section 5		
11	Toxicological information		
	Toxicological (health) effects		
	Acute toxicity - DMSO Alcohol	Acute toxicity - Ninhydrin	Acute Toxicity - Isopropyl

LC50 inhalation -Rat - 4h-40250 ppm	Inhalation - No data available	LC50 inhalation -Rat - 72.60
Date of Preparation: 9/29/2020 11:15:13 AM		Revision: 1

LD50 - Oral Rat -600mg/kg

LD50 - Oral Rat -4710.00 mg/kg

LD50 dermal - Rabbit - > 5000 mg/kg

No data available

Skin corrosion/irritation Mild skin irritation

Serious eye damage No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity Mouse lymphocyte Cytogenetic analysis

Mouse lymphocyte Mutation in mammalian somatic cells

Rat Cytogenic analysis Mouse DNA Damage

Carcenogenicity

Rat - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

Mouse - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Leukaemia Skin and Appendages: Other: Tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

Reproduction toxicity-DMSO

Rat-Intraperitoneal Effects on Fertility: Abortion

Rat-Intraperitoneal

No data available

Skin corrosion/irritation No data available

Serious eye damage No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicit No data available No data available

Dermal - No data available

Skin corrosion/irritation No data available

Serious eye damage Causes eye irritation Cat 2

Respiratory or skin sensitisation

No data available

Germ cell mutagenicit No data available

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total numer of implants).

Rat-Subcutaneous

Effects on Fertility: Post implantation mortality (e.g.,dead and/or resorbed implants per total numer of implants). Litter size (e.g., # fetuses per litter; measured before birth).

Mouse-Oral Effects on Fertility: Pre-implantation mortality (e.g., reduction in numbe corpora lutea). 0 Effects on Embryo: Fetotoxity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.

Developmental Toxicity-DMSO

Mouse-Intraperitoneal Effects on Embruo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.

Specific target organ-single exposure

May cause drowsiness or dizziness. Cat 3.

Specific target organ-repeated exposure

No data available

Aspiration hazard

No data available

Additional information RTECS: PV6210000, NK5425000

Exposure to large amounts can cause: redness of skin, itching, burning, sedation, Headache, Nausea, Dizziness To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Eyes-Eye disease Based on Human Evidence

12 Ecological information

Toxicity

Toxicity to fish	LC50-Pimephales promelas (fathead minnow) - 34000 mg/l - 96 h LC50-Oncorhynchus mykiss (rainbow trout) - 35000 mg/l - 96 h LC50-Lepomis macrochirus (blue gill) - 1400 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50-Daphnia magna (Water flea) - 246000 mg/l - 48 h (OECD Test Guideline 202)

Persistence and degradability

Result: 31% -Accoring to the results of teasts of biodegradability this product is not redily biodegradable (OECD Test Guideline 301D)

Bioaccumulative potential

No data available

Mobility in soil

No data available Stability in water: -0.12-1.2 h at 30 °C Remarks: Hydrolyses readily.

Other adverse effects

No data available

13 Disposal considerations

Disposal methods

Product

Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14 Transport information

UN Number

DOT (US)

NA-Number: 1993, 1219 Class: NONE Packing group: II, III Proper shipping name: Combustible liquid, n.o.s. (Dimethyl sulfoxide), Isoporpanol, 3 Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG Not dangerous goods

IATA Not dangerous goods

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

SARA 302 Components

No chemicals in the material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contail any chemical components with known CAS numbers that exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire hazard, Chronic Health Hazard, Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right To Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dimethyl sulfoxide	67-68-5	2007-03-01
Indian-1,2,3-trione	485-47-2	
Isopropyl Alcohol	67-63-0	
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Dimethyl sulfoxide	67-68-5	2007-03-01
Indian-1,2,3-trione	485-47-2	
Isopropyl Alcohol	67-63-0	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16 Other information

Other information

Full text of H-statements referred to under sections 2 and 3.

Flam.Liq.	Flammable liquids
H225	Highly flammable liquid amd vapor
H227	Combustible liquid
Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness and dizziness
Skin Irrit.	Causes serious eye irritation

HMIS Rating

Health hazard:	2
Chronic Health Hazard	
Flammability:	0
Physical Hazard:	0

NFPA Rating	
Health Hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further Information

The above information, to the best of our knowledge, is accurate. Key Scientific Products assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of materials is the sole resposibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.