Prepared date: 01 October 2015 Revised data : 01 January 2023



(single exposure)

Safety Data Sheet

1] PRODUCT AND COMPAN Product name E	gg(Ovalbumin) ELISA Kit
	casein ELISA Kit
	Vheat/Gluten(Gliadin) ELISA Kit
	leanut ELISA Kit
Manufacturer's name M	Iorinaga Institute of Biological Science, Inc.
	-1-1 Shimosueyoshi, Tsurumi-ku,Yokohama-shi, 230-8504, Japan
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SDS No. G	SHS-SA-11
2] HAZARDS IDENTIFICATIO	
kit contains mixtures of haz	ardous and non-hazardous substances. Below are materials identified as
potentially hazardous.	
Sodium lauryl sulfate, wa	ater
Human health hazard	
Serious eye damage	: Category 2B
Eye irritation	. Oalogory 20
Specific target organ	1
systemic toxicity	: Category 3
(single exposure)	
Specific target organ	1
systemic toxicity (re	peated : Category 2
exposure)	
Environmental hazard	
Hazardous to the a	
environment (acute	Category 3
hazard)	
Pictogram or symbol	\wedge \wedge
Signal word	: danger
Hazard statement	: Causes serious eyes irritation.
	May cause respiratory irritation
	May cause damage to organs(kidney) through prolonged or
	repeated exposure.
	Harmful to an aquatic life.
Cautions	
Safety measures	: Wear appropriate protective gloves, glasses, clothing, face
	shield, or mask.
First-aid measures	:Wash protective equipment thoroughly after use. :If in eyes: Rinse cautiously with water for several minutes.
	Get medical treatment
	: If on skins: Remove contaminated clothing and the substance.
	Rinse cautiously with water. Immediately get medical
	treatment.
(2) Sulfuric acid	
Human health hazard	
Skin corrosion • Irrit	5,
Serious eye damage	Category 1
Eye irritation	• •
Specific target organ	ן :
systemic toxicity	Category 1
(single exposure)	

Specific target organ systemic toxicity (repeated exposure)	: Category 1
Pictogram or symbol	
Signal word Hazard statement	 Danger Causes severe skin burns and eye damage. Causes serious eye damage. Causes damage to organs (respiratory organs) Cause damage to organs (respiratory organs) through prolonged or repeated exposure.
Cautions	
Safety measures	 Do not breathe dust, mist, and vapor. Do not eat, drink, or smoke when using this product. Wear appropriate protective gloves, glasses, clothing, face shield, or mask. Wash protective equipment thoroughly after use.
First-aid measures	 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If swallowed: Rinse mouth, do not induce vomiting. Immediately get medical treatment. If in eyes: Rinse cautiously with water for several minutes. Get medical treatment If on skins: Remove contaminated clothing and the substance. Rinse cautiously with water. Immediately get medical treatment.

: Wash hands thoroughly after use.

[3] COMPOSITION/INFORMATION ON INGREDIENTS

 (1) Sodium lauryl sulfate, water Substance/Mixture Chemical name or commercial name 	: Substance [:] Sodium n-dodecyl sulfate
Synonyms Ingredients and composition Formula CAS-No. TSCA Inventory EINECS	 Sodium lauryl sulfate Sodium lauryl sulfate, water solution. The content is not disclosed CH3(CH2)10CH2OSO3Na 151-21-3 Registered 2057881
(2) Sulfuric acid	
Substance/Mixture	: Substance
Chemical name or commercial name	Sulfuric acid
Ingredients and composition Formula CAS-No. TSCA Inventory EINECS	: Water solution contains 0.5mol/L sulfuric acid. : H2SO4 : 7664-93-9 : Registered : 2316395
Dangerous and hazardous ingredients	: sulfuric acid

[4] FIRST AID MEASURES

(1) Sodium lauryl sulfate, water Inhalation

: Remove the victim to fresh air. Blow nose and gargle

Skin contact Eye contact Ingestion	 Wash the affected areas under running water. Wash the affected areas under running water. Give the victim one or two glasses of water or saline and induce vomiting. Get medical treatment.
(2) Sulfuric acid Inhalation Skin contact Eye contact Ingestion Anticipated acute and delayed symptoms.	 Remove the victim to fresh air, and keep him warm. Wash the affected areas under running water. Wash the affected areas under running water. Give the victim one or two glasses of water or milk with egg white. Do not induce vomiting. Get medical treatment. If inhaled sulfuric acid mist, cause throat ache, cough, and shortness of breath. If contacted skin, cause redness, ache, blister, and burn.
[5] FIRE-FIGHTING MEASURES Extinguishing media Prohibited extinguishing media Particular fire fighting	 Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and
Protection for firefighters	protect surrounding area. : Firefighters should wear protective equipment.
[6] ACCIDENTAL RELEASE MEASUR (1) Sodium lauryl sulfate, water Cautions for personnel	RES : Wear proper equipment and avoid contact with skin and
Cautions for environmental	 inhalation of vapor. Attention should be given not to cause damage to the environment by flowing of spillage to rivers. In case of the dilution of copious water, do not cause
Removal measures	damage to the environment by untreated wastewater.Absorb spill with paper or cloth.Wash thoroughly with water
(2) Sulfuria agid	
(2) Sulfuric acid Cautions for personnel	: Wear proper equipment and avoid contact with skin and
Cautions for environmental	 inhalation of vapor. Attention should be given not to cause damage to the environment by flowing of spillage to rivers.
Removal measures Prevention of second accident	 In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater. Absorb spill with paper or cloth. Wash thoroughly with water Do not contact with organic substances or combustible substances.
[7] HANDLING AND STORAGE	
Handling	
Engineering measures	: Wear proper protective equipment not to contact with skin or
Cautions for safety handling Storage	 Handle not to generate aerosol or vapor. Use with an enclosed system or a local exhaust ventilation
Adequate storage condition Safety adequate container materials	: Store in a dark, cool place and tightly closed. : Glass, polyethylene, polypropylene
[8] EXPOSURE CONTROL/PERSON	AL PROTECTION
(1) Sodium lauryl sulfate, water	
Engineering measures Control parameters	: Use only with adequate ventilation and in closed systems.
ACGIH(2009)	: Not applicable

Protective equipment Respiration protective equipment Hands protective equipment Eyes protective equipment	 Not necessary Impervious protective gloves Safety goggles
(2) Sulfuric acid Engineering measures Control parameters ACGIH(2009) Protective equipment Respiration protective equipment Hands protective equipment Eyes protective equipment	 : Use only with adequate ventilation and in closed systems. : 0.2mg/m3 (TLV-TWA) nent : If necessary, wear a chemical cartridge respirator with acidic grass. : Impervious protective gloves : Safety goggles
 [9] PHYSICAL AND CHEMICAL PRO (1) Sodium lauryl sulfate, water Appearance Color Odor pH Boiling point Melting point Flash point Specific gravity Solubility 	PERTIES : Liquid : Colorless : Odorless : 7.0-9.0 : Not Available : Not Available : Noncombustible : Approx. 1.0 g/mL : Water: Freely soluble
(2) Sulfuric acid Appearance Color Odor pH Boiling point Melting point Flash point vapor density Specific gravity Solubility	: Liquid : Colorless : Odorless : Strong acidity : Approx. 100°C : Approx2°C : Noncombustible : 3.4 : 1.030g/ml (20°C) : Water: Freely soluble
 [10] STABILITY AND REACTIVITY (1) Sodium lauryl sulfate, water Stability Reactivity Incompatible conditions Incompatible materials Hazardous decomposition products 	 Stable under normal usage May react with strong oxidizing substances. Light, heat Oxidizing substances Toxic fumes of sulfur oxides (Sox), carbon monoxide
(2) Sulfuric acid Stability Reactivity Incompatible conditions Incompatible material Hazardous decomposition products	 Stable under normal usage May react with alkaline substances. Light, heat Alkaline substances Sulfur oxides
[11] TOXICOLOGICAL INFORMATION (1) Sodium lauryl sulfate, water	N . Out of category

(1) Couldin laar ji Canaco, Mator	
Acute toxicity, Oral	: Out of category
Acute toxicity, Dermal	: Out of category
Inhalation (gas)	: Not possible to classify because of insufficient data

Inhalation (dust, mist)	 Not possible to classify because of insufficient data If swallowed, may cause nausea, vomiting, abdominal pain.
Skin corrosiveness	Rat oral LD50=1290mg/kg (as sodium lauryl sulfate) Rat intraperitoneal LD50=210mg/kg (as sodium lauryl sulfate) : Out of category
Irritation to skin, eyes	: Causes serious eyes irritation.(Category 2B) Since cause moderate irritation to the eyes of rabbit, it was
Respiratory sensitization or ski	classified into category 2B. n sensitization
Respiratory sensitization	: Not possible to classify because of insufficient data
Skin sensitization	: Not possible to classify because of insufficient data
Mutagenicity	: Out of category
Carcinogenic effects Effects on the reproductive sys	: Not possible to classify because of insufficient data stem
	: Not possible to classify because of insufficient data
Specific target organ systemic	
	 Causes stimulation to respiratory organs.(Category 3) Based on descriptions that respiratory tract irritation is seen by
	aerosol exposure in mouse, a rabbit, and agonies pig and that
	respiratory tract irritation is seen by short terms exposure, it was
	classified into category 3.
Specific target organ systemic	toxicity(repeated exposure)May cause damage to organs(kidney) through prolonged ore
	repeated exposure(category 2)
	It is Witten that there were vacuolar degeneration of kidney tubular
	epithelial cells, and atrophic of kidney glomerulus. Since these
	symptoms were found within the scope of the guidance value of Category2, it was classified into category 2(kidney).
Aspiration hazard	: Not possible to classify because of insufficient data
(2) Sulfuria agid	
(2) Sulfuric acid Acute toxicity, Oral	Out of category
Acute toxicity, Dermal	Not possible to classify because of insufficient data
Inhalation (vapor)	: Not possible to classify because of insufficient data
Inhalation (dust, mist)	: Out of category Rat oral LD50=44580mg/kg (as calculated value)
	Rat inhalation LC50=7230ppm/l/4H (as calculated value)
Skin corrosiveness	: Causes severe skin burns. (Category1A)
Irritation to skin, eyes	: Causes serious eye damage. (Category1) In case of human accident of sulfuric acid, severe eye
Respiratory sensitization or ski	
Respiratory sensitization	: Not possible to classify because of insufficient data
Skin sensitization	: Out of category Sulfuric acid has no human skin sensitization.
Mutagenicity	: Not possible to classify because of insufficient data
Carcinogenic effects	: Not possible to classify because of insufficient data
Effects on the reproductive sys	
	 Out of category Inhalation studies of sulfuric acid of sulfuric acid of rabbits
	and mice during the period of embryo organogenesis, the
	dose that does not recognized toxicity on dams appears no
	embryo toxicity and tetraagenicity on both species. As the
	main toxicity is direct irritation and corrosion on the local tissue, there is no concern of reproductive toxicity.
Specific target organ systemic	· · ·
	: Cause damage to organs (respiratory organs) (category 1)
	In inhalation studies of sulfuric acid of human in the low
	concentration, irritation symptoms of respiratory tract like cough, shortness of breath are recognized. In the high
	concentration, acute effects like cough, shortness of breath,
	bloodstained sputum evacuation and continuing effects like
	decreased function of lungs, emphysema are recognized. In
	inhalation studies of guinea pig for eight hours, lung bleeding
	and dysfunction are recognized.

Specific target organ systemic toxicity(repeated exposure)

	toxicity(repeated exposure)	
Aspiration hazard	[:] Cause damage to organs (respiratory organs) through prolonged or repeated exposure. (category 1)	
	 In inhalation studies of sulfuric acid of rats for 28 days, at the guidance concentration range of category 1, cell growth on pharyngeal mucosa is recognized. In repeated inhalation studies of guinea pig, in the same concentration, respiratory tract and lung disorder are recognized. in inhalation, studies of cynomolgus monkeys for 78 weeks, at the guidance concentration range of category 1, histological alteration like hyperplastic cell on bronchiole, thickened lung wall are recognized. Not possible to classify because of insufficient data 	
 [12] ECOLOGICAL INFORMATION (1) Sodium lauryl sulfate, water Eco toxicity Fish toxicity Acute aquatic toxicity Chronic aquatic toxicity 	: Category3 American Lobster LC50=0.72mg/L/96H : Not possible to classify because of insufficient data	
(2) Sulfuric acid Eco toxicity Fish toxicity Acute aquatic toxicity Chronic aquatic toxicity	: Not possible to classify because of insufficient data : Not possible to classify because of insufficient data	
[13] DISPOSAL CONSIDERATIONS		
(1) Sodium lauryl sulfate, water		
Residual disposal	 Dilute with copious water and adjust the pH of the solution. After that, flush in drains. 	
Containers	 Or entrust approved waste disposal companies with the disposal In case of disposal of empty bottles, dispose bottles after removing the content thoroughly. 	
(2) Sulfuric acid		
Residual disposal	: Add the chemical gradually in alkaline water solution like calcium hydroxide, sodium carbonate to neutralized and flush in a drain with a large amount of water.	
Containers	 in a drain with a large amount of water. Or entrust approved waste disposal companies with the disposal In case of disposal of empty bottles, dispose bottles after removing the content thoroughly. 	
[14] TRANSPORT INFORMATION		
	: Not applicable	
UN class		

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[16] OTHER INFORMATION

References

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Kyoritsu Shuppan Co., Ltd.

The information contained herein is based on several references and the present state of our knowledge. However, the MSDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information , and it does not represent a guarantee the properties of the product