

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/06/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture Product name : Mercuric Nitrate, 0.025N (0.0013M) Product code : LC16657 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : For laboratory and manufacturing use only. Details of the supplier of the safety data sheet 1.3. LabChem Inc Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

1.4. Emergency telephone number

: CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture

Classification (GHS-US)

Emergency number

Acute Tox. 4 (Dermal) H312 STOT RE 2 H373 Aquatic Acute 3 H402 Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS07 GHS08
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	 H312 - Harmful in contact with skin H373 - May cause damage to organs (nervous system, kidneys, blood) through prolonged or repeated exposure H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS-US)	 P260 - Do not breathe mist, vapors, spray P273 - Avoid release to the environment P280 - Wear eye protection, protective gloves, protective clothing P302+P352 - IF ON SKIN: Wash with plenty of soap and water P312 - Call a POISON CENTER/doctor if you feel unwell P362+P364 - Take off contaminated clothing and wash it before reuse P501 - Dispose of contents/container to comply with local, state and federal regulations
2.3. Other hazards	
Other hazards not contributing to the classification	: None under normal conditions.
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/information	on on ingredients
3.1. Substance	
Not applicable	
04/00/0045	

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3.2. Mixture			
Name	Product identifier	%	Classification (GHS-US)
Water	(CAS No) 7732-18-5	99.35	Not classified
Mercuric Nitrate, Dihydrate	(CAS No) 22852-67-1	0.45	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Nitric Acid, 70% w/w	(CAS No) 7697-37-2	0.2	Ox. Liq. 3, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Full text of H-phrases: see section 16

Full text of H-phrases: 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. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/injuries	: Causes damage to organs (liver, kidneys, nervous system).
Symptoms/injuries after inhalation	: Possible inflammation of the respiratory tract. Headache.
Symptoms/injuries after skin contact	 Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: Nausea. Vomiting. Diarrhoea. Impairment of the nervous system.
Chronic symptoms	: Impairment of the nervous system.
4.3. Indication of any immediate media	cal attention and special treatment needed
Obtain medical assistance.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the s	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective of	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses. Protective clothing. Gloves.
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	
Preven	t entry to sewers and public waters.	Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3.	Methods and material for conta	ainment and cleaning up
Method	ls 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 He	eading 8. Exposure controls and per	sonal protection.
SECT	TON 7: Handling and stora	ge
7.1.	Precautions for safe handling	
Precau	tions 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. Avoid breathing mist, vapors, spray.
7.2.	Conditions for safe storage, in	cluding any incompatibilities
Storage	e conditions	: Keep container closed when not in use.
Incomp	patible products	: Strong reducing agents. silver nitrate. Strong bases.
Incomp	patible materials	: Sources of ignition. Direct sunlight.
7.3.	Specific end use(s)	
No add	litional information available	

SECTION 8: Exposure controls/personal protection

8.1. Control pa	arameters	
Mercuric Nitrate, (0.025N (0.0013M)	
ACGIH	Not applicable	
OSHA	Not applicable	
Mercuric Nitrate, I	Dihydrate (22852-67-1)	
ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m ³ as Hg
Nitric Acid, 70% w	/w (7697-37-2)	
ACGIH		2 nnm

ACGIH	ACGIH TWA (ppm)	2 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	2 ppm
Water (7732-18-5)		
ACGIH	Not applicable	
OSHA	Not applicable	

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective 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 che	mical properties	
9.1. Information on basic physic	al and chemical properties	
Physical state	: Liquid	
Color	: Colorless	
Odor	: None.	
Odor threshold	: No data available	
04/06/2015	EN (English US)	3/1

ATE US (vapors)

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рН	: ≤7
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)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1 g/ml
Solubility	 Soluble in water. Water: Solubility in water of component(s) of the mixture : Mercuric Nitrate, Dihydrate: • Nitric Acid, 70% w/w:
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
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SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. 10.2. Chemical stability Discolours on exposure to light. 10.3. 10.3. Possibility of hazardous reactions Not established. 10.4. 10.4. Conditions to avoid Direct sunlight. Extremely high or low temperature 10.5. Incompatible materials silver nitrate. Strong reducing agents. Strong bas 10.6. Hazardous decomposition products Nitrogen oxides. mercury. SECTION 11: Toxicological information on toxicological effects Likely routes of exposure Acute toxicity Mercuric Nitrate, 0.025N (0.0013M) LD50 oral rat	es. on : Skin and eye contact : Dermal: Harmful in contact with skin. 11402 mg/kg
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SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. 10.2. Chemical stability Discolours on exposure to light. 10.3. 10.3. Possibility of hazardous reactions Not established. 10.4. Conditions to avoid Direct sunlight. Extremely high or low temperature 10.5. Incompatible materials silver nitrate. Strong reducing agents. Strong bas 10.6. Hazardous decomposition products Nitrogen oxides. mercury. SECTION 11: Toxicological informati 11.1. Information on toxicological effects Likely routes of exposure Acute toxicity Mercuric Nitrate, 0.025N (0.0013M) LD50 oral rat LD50 dermal rat	es. on : Skin and eye contact : Dermal: Harmful in contact with skin. 11402 mg/kg 1109 mg/kg

10.950 mg/l/4h EN (English US)

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Mercuric Nitrate, 0.025N (0.0013M)	
ATE US (dust, mist)	10.950 mg/l/4h
Mercuric Nitrate, Dihydrate (22852-67-1)	
LD50 oral rat	26 mg/kg (Rat)
LD50 dermal rat	75 mg/kg (Rat)
ATE US (oral)	26.000 mg/kg body weight
ATE US (dermal)	5.000 mg/kg body weight
ATE US (gases)	100.000 ppmV/4h
ATE US (vapors)	0.500 mg/l/4h
ATE US (dust, mist)	0.050 mg/l/4h
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
	pH: ≤ 7
Serious eye damage/irritation	: Not classified
	pH: ≤ 7
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (single exposure)	
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (nervous system, kidneys, blood) through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful in contact with skin.
Symptoms/injuries after inhalation	: Possible inflammation of the respiratory tract. Headache.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: Nausea. Vomiting. Diarrhoea. Impairment of the nervous system.
Chronic symptoms	: Impairment of the nervous system.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - water	: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Mercuric Nitrate, 0.025N (0.0013M)	
EC50 Daphnia 1	22.2 mg/l
Mercuric Nitrate, Dihydrate (22852-67-1)	
LC50 fish 1	< 1 mg/l (96 h; Pisces; Mercury ion)
LC50 other aquatic organisms 1	< 1 mg/l (96 h)
EC50 Daphnia 1	0.0052 mg/l (48 h; Daphnia magna; Mercury ion)
LC50 fish 2	0.033 ppm 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit other aquatic organisms 1	< 1 mg/l (96 h)
Threshold limit algae 1	0.4 ppm (Chlorella vulgaris; Mercury ion)
Nitric Acid, 70% w/w (7697-37-2)	
LC50 fish 1	25 - 36 mg/l (96 h; Lepomis macrochirus; Pure substance)
EC50 Daphnia 1	180 mg/l (48 h; Daphnia magna; Pure substance)
LC50 fish 2	72 ppm (Gambusia affinis; Pure substance)
Threshold limit algae 1	> 19 mg/l (Algae; Pure substance)

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Mercuric Nitrate, 0.025N (0.0013M)	
Dereistance and degradability	May ague long term advance offects in the anvironment
Persistence and degradability	May cause long-term adverse effects in the environment.
Mercuric Nitrate, Dihydrate (22852-67-1)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Nitric Acid, 70% w/w (7697-37-2)	
Persistence and degradability	Biodegradability: not applicable. No test data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	
	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Water (7732-18-5)	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Mercuric Nitrate, 0.025N (0.0013M)	
Bioaccumulative potential	Not established.
Mercuric Nitrate, Dihydrate (22852-67-1)	
Bioaccumulative potential	Bioaccumable.
Nitric Acid, 70% w/w (7697-37-2)	
BCF fish 1	<= 1 (Pisces)
Log Pow	-2.3 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Bioaccumulation: not applicable.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
2.4 Mobility in soil	
2.4. Mobility in soil	
2.4. Mobility in soil lo additional information available	
lo additional information available	
Io additional information available 2.5. Other adverse effects	
lo additional information available	: No known ecological damage caused by this product.
Io additional information available 2.5. Other adverse effects	 No known ecological damage caused by this product. Avoid release to the environment.
Output Output 2.5. Other adverse effects Output Output Other information Output	: Avoid release to the environment.
Io additional information available 2.5. Other adverse effects Effect on the global warming Other information SECTION 13: Disposal considerati	: Avoid release to the environment.
Ao additional information available 2.5. Other adverse effects Effect on the global warming Other information SECTION 13: Disposal considerati 3.1. Waste treatment methods	: Avoid release to the environment.
Io additional information available 2.5. Other adverse effects Effect on the global warming Other information SECTION 13: Disposal considerati	Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of
Ao additional information available 2.5. Other adverse effects Effect on the global warming Other information EECTION 13: Disposal considerati 3.1. Waste treatment methods Vaste disposal recommendations	 Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.
Ao additional information available 2.5. Other adverse effects Effect on the global warming Other information SECTION 13: Disposal considerati 3.1. Waste treatment methods	 Avoid release to the environment. ons Dispose in a safe manner in accordance with local/national regulations. Dispose of
Ao additional information available 2.5. Other adverse effects Effect on the global warming Other information EECTION 13: Disposal considerati 3.1. Waste treatment methods Vaste disposal recommendations	 Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
Ao additional information available 2.5. Other adverse effects Effect on the global warming Other information EECTION 13: Disposal considerati 3.1. Waste treatment methods Vaste disposal recommendations Ecology - waste materials EECTION 14: Transport informatio	 Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
Ao additional information available 2.5. Other adverse effects Effect on the global warming Other information ECCTION 13: Disposal considerati 3.1. Waste treatment methods Vaste disposal recommendations Ecology - waste materials ECCTION 14: Transport informatio Department of Transportation (DOT)	 Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
Ao additional information available 2.5. Other adverse effects 2.5. Other a	 Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
Ao additional information available 2.5. Other adverse effects Effect on the global warming Other information ECCTION 13: Disposal considerati 3.1. Waste treatment methods Vaste disposal recommendations Ecology - waste materials ECCTION 14: Transport informatio Department of Transportation (DOT)	 Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.

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ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Mercuric Nitrate, 0.025N (0.0013M)

SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Mercuric Nitrate, Dihydrate	CAS No 22852-67-1	0.45		
Nitric Acid, 70% w/w	CAS No 7697-37-2	0.2		
Mercuric Nitrate, Dihydrate (22852-67-1)				
Listed on United States SARA Section 313				
RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb			
Nitric Acid, 70% w/w (7697-37-2)				
Listed on United States SARA Section 313				
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard			

15.2. International regulations

CANADA

Manageria Nitrata Dihudrata (20050.07.4)				
Mercuric Nitrate, Dihydrate (22852-67-1)				
Listed on the Canadian DSL (Domestic Substance	es List)			
WHMIS Classification	Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects			
Nitric Acid, 70% w/w (7697-37-2)				
Listed on the Canadian DSL (Domestic Substance	es List)			
WHMIS Classification	Class E - Corrosive Material Class C - Oxidizing Material			
Water (7732-18-5)				
Listed on the Canadian DSL (Domestic Substance	es List)			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

National regulations

Mercuric Nitrate, Dihydrate (22852-67-1)

Listed on the Canadian IDL (Ingredient Disclosure List)

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Nitric Acid, 70% w/w (7697-37-2)

Listed on the Canadian IDL (Ingredient Disclosure List)

Water (7732-18-5)

Not listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Mercuric Nitrate, Dihydrate (22852-67-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	

SECTION 16: Other information

Other information

: None.

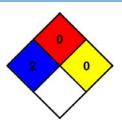
Full text of H-phrases: see section 16:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Ox. Liq. 3	Oxidizing liquids Category 3
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H300	Fatal if swallowed
H310	Fatal in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H330	Fatal if inhaled
H373	May cause damage to organs through prolonged or repeated
	exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

NFPA fire hazard NFPA reactivity

- : 2 Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
	* - Chronic (long-term) health effects may result from repeated overexposure
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal Protection	: C C - Safety glasses, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

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