

Safety Data Sheet

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

Date of issue: 07/06/1998 Revision date: 06/26/2013 Supersedes: 05/22/2013

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

Product identifier

Product form : Substance

Substance name Ammonium Hydroxide, 28-30% w/w

CAS No 1336-21-6 Product code · LC11050 Formula : NH4OH

Synonyms : ammonia hydrate, 28%-30% / Ammonia solution, relative density between 0.880 and 0.957 at 15

> °C in water, with more than 10% but not more than 35% ammonia / ammonia,aqua 25%<=conc<35% / ammonia,liquor,25%<=conc<35% / ammonia, solutions, 28%-30% / ammoniawater, 28%-30% / aqua ammonia, solution, 28%-30% / spirit of hartshorn, 28%-30%

Version: 1.2

BIG no : 26353

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

Use of the substance/mixture : Chemical raw material

Food industry: additive

Solvent

1.3. Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

16063 Zelienople, PA - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

Emergency telephone number

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

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) H302 Skin Corr. 1A H314 H400 Aquatic Acute 1

Label elements 22

GHS-US labelling

Hazard pictograms (GHS-US)



GHS05



GHS07

GHS09

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H400 - Very toxic to aquatic life

Precautionary statements (GHS-US) : P260 - Do not breathe mist, spray, vapours

P264 - Wash exposed skin thoroughly after handling P270 - Do no eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/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 POISON CENTER/doctor/...

P330 - If swallowed, rinse mouth

P363 - Wash contaminated clothing before reuse

P391 - Collect spillage P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

06/26/2013 EN (English) Page 1

Safety Data Sheet

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

2.3. Other hazards

Other hazards not contributing to the classification

· None

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Multi-constituent

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	70 - 72	Not classified
Ammonium Hydroxide, 28-30% w/w	(CAS No) 1336-21-6	28 - 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Aquatic Acute 1, H400

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

- : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
- First-aid measures after inhalation
- First-aid measures after skin contact
- : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
- Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.
- First-aid measures after eye contact
- Rinse immediately with plenty of water for 15 minutes. Cover eyes aseptically. Do not apply neutralizing agents. Take victim to an ophthalmologist.
- First-aid measures after ingestion
- : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Nausea. Headache. EXPOSURE TO HIGH CONCENTRATIONS: Possible oedema of the upper respiratory tract. Possible inflammation of the respiratory tract. Possible laryngeal spasm/oedema. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung oedema. Risk of pneumonia. Respiratory difficulties. Possible esophageal perforation.

Symptoms/injuries after skin contact

: Caustic burns/corrosion of the skin.

Symptoms/injuries after eye contact

: Irritation of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion

: Risk of aspiration pneumonia. Nausea. Vomiting. AFTER ABSORPTION OF HIGH QUANTITIES: Blue/grey discolouration of the skin. Blood in stool. Blood in vomit. Possible esophageal perforation. FOLLOWING SYMPTOMS MAY APPEAR LATER: Shock.

Chronic symptoms

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Coughing. Irritation of the respiratory tract. Irritation of the eye tissue. Redness of the eye tissue. Possible inflammation of the respiratory tract. Respiratory difficulties. Affection of the nasal septum.

4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: DIRECT FIRE HAZARD. Non combustible.

Explosion hazard

: INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".

06/26/2013 EN (English) 2/8

Safety Data Sheet

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

Reactivity

: On heating: release of toxic/corrosive/combustible gases/vapours (ammonia). On burning: release of toxic and corrosive gases/vapours (nitrous vapours). Concentrated solution violent to explosive reaction with many compounds e.g.: with (some) halogens compounds, with (strong) oxidizers and with (some) acids.

Advice for firefighters

Firefighting instructions

: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

Protection during firefighting

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

: Gas-tight suit. Corrosion-proof suit.

Emergency procedures

: Keep upwind. Mark the danger area. Consider evacuation. Close doors and windows of adjacent

premises. No naked flames. Keep containers closed. Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment **Emergency procedures** : Equip cleanup crew with proper protection. : Stop leak if safe to do so. Ventilate area.

Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

Methods and material for containment and cleaning up

For containment

: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Dilute toxic gases/vapours with water spray. Take account of toxic/corrosive precipitation water.

Methods for cleaning up

Damaged/cooled tanks must be emptied. Take up liquid spill into absorbent material, e.g.: sand/earth or powdered limestone. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Reference to other sections

No additional information available

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Use corrosionproof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Exhaust gas must be neutralised.

Hygiene measures

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep container closed when not in use.

Incompatible products

Strong acids. silver nitrate.

Maximum storage period

: 365 davs

Storage temperature

: < 38 °C

Heat and ignition sources

: KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage

KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. halogens.

Storage area

Store at ambient temperature. Keep out of direct sunlight. Store in a dark area. Keep container in a well-ventilated place. Keep locked up. Provide for a tub to collect spills. Meet the legal

Special rules on packaging

SPECIAL REQUIREMENTS: closing. clean. opaque. correctly labelled. meet the legal

requirements. Secure fragile packagings in solid containers.

Packaging materials

SUITABLE MATERIAL: synthetic material. glass. MATERIAL TO AVOID: aluminium. copper. tin.

zinc. nickel. bronze

Specific end use(s)

No additional information available

06/26/2013 EN (English) 3/8

Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ammonium Hydroxide, 28-30% w/w (1336-21-6)		
USA ACGIH	ACGIH TWA (mg/m³)	17 mg/m³
USA ACGIH	ACGIH TWA (ppm)	25 ppm
USA ACGIH	ACGIH STEL (mg/m³)	24 mg/m³
USA ACGIH	ACGIH STEL (ppm)	35 ppm
USA OSHA	OSHA PEL (TWA) (mg/m3)	35 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Emergency eye wash fountains and

safety showers should be available in the immediate vicinity of any potential exposure.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: butyl rubber. GIVE GOOD RESISTANCE: neoprene. nitrile

rubber. viton. tetrafluoroethylene. GIVE LESS RESISTANCE: PVC. GIVE POOR RESISTANCE:

natural rubber. polyethylene. PVA.

Hand protection : Gloves.

Eye protection : Protective goggles.

Skin and body protection : Head/neck protection. Corrosion-proof clothing.

Respiratory protection : Gas mask with filter type K. High vapour/gas concentration: self-contained respirator.

Thermal hazard protection : None necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Molecular mass : 35.05 g/mol
Colour : Colourless.

Odour : Irritating/pungent odour.

 Odour threshold
 : 5 - 50 ppm

 pH
 : 11.7 (3.5 %)

 pH solution
 : 3.5 %

Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available

Boiling point : 27 °C

Flash point : Not applicable
Self ignition temperature : Not applicable
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : 0.88 - 0.91

Density : 0.89

Solubility : Water: Complete

Log Pow : -1.3

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : Not applicable

9.2. Other information

Minimum ignition energy : Not applicable VOC content : Not applicable

Other properties : Clear. Physical properties depending on the concentration. Volatile. Substance has basic

reaction.

06/26/2013 EN (English) 4/8

Safety Data Sheet

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

SECTION 10: Stability and reactivity

10.1. Reactivity

On heating: release of toxic/corrosive/combustible gases/vapours (ammonia). On burning: release of toxic and corrosive gases/vapours (nitrous vapours). Concentrated solution violent to explosive reaction with many compounds e.g.: with (some) halogens compounds, with (strong) oxidizers and with (some) acids.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

10.4. Conditions to avoid

High temperature. Incompatible materials.

10.5. Incompatible materials

May react violently with acids.

10.6. Hazardous decomposition products

Gaseous ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

Ammonium Hydroxide, 28-30% w/w (1336-2		
LD50 oral rat	ng/kg	
Water (7732-18-5)		
LD50 oral rat	00 mg/kg	
Skin corrosion/irritation	es severe skin burr	ns and eye damage.
	1.7 (3.5 %)	
Serious eye damage/irritation	lassified	
	1.7 (3.5 %)	
Respiratory or skin sensitisation	lassified	
Germ cell mutagenicity	lassified	
Carcinogenicity	lassified	
Reproductive toxicity	lassified	
Specific target organ toxicity (single exposure)	lassified	
Specific target organ toxicity (repeated exposure)	lassified	
Aspiration hazard	lassified	
Symptoms/injuries after inhalation	oranes. Nausea. He upper respiratory m/oedema. FOLLO	ig. Irritation of the respiratory tract. Irritation of the nasal mucous eadache. EXPOSURE TO HIGH CONCENTRATIONS: Possible oedem tract. Possible inflammation of the respiratory tract. Possible laryngeal WING SYMPTOMS MAY APPEAR LATER: Risk of lung oedema. Risk bry difficulties. Possible esophageal perforation.
Symptoms/injuries after skin contact	tic burns/corrosion	of the skin.
Symptoms/injuries after eye contact	ion of the eye tissu	e. Permanent eye damage.
Symptoms/injuries after ingestion	NTITIES: Blue/grey	nonia. Nausea. Vomiting. AFTER ABSORPTION OF HIGH discolouration of the skin. Blood in stool. Blood in vomit. Possible FOLLOWING SYMPTOMS MAY APPEAR LATER: Shock.
Chronic symptoms	Irritation of the eye	EATED EXPOSURE/CONTACT: Coughing. Irritation of the respiratory tissue. Redness of the eye tissue. Possible inflammation of the story difficulties. Affection of the nasal septum.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Dangerous for the environment.
Ecology - water	: Water pollutant (surface water). Affects the self-cleaning capacity of surface water. Ground water pollutant. Maximum concentration in drinking water: 0.50 mg/l (ammonium) (Directive 98/83/EC). Highly toxic to fishes. Toxic to invertebrates (Daphnia). May cause eutrophication. Highly toxic to plankton. pH shift. Inhibition of activated sludge.

06/26/2013 EN (English) 5/8

Safety Data Sheet

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

Ammonium Hydroxide, 28-30% w/w (1336-21-6)	
LC50 fishes 1	0.16 - 1.1 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); SOLUTION >=50%)
LC50 other aquatic organisms 1	1 - 10 mg/l (96 h; SOLUTION >=50%)
LC50 fish 2	0.75 - 3.4 mg/l (96 h; Pimephales promelas; SOLUTION >=50%)
TLM fish 1	47 ppm (48 h; Salmo gairdneri (Oncorhynchus mykiss); COOL WATER)
TLM fish 2	34 ppm (48 h; Salmo gairdneri (Oncorhynchus mykiss); WARM WATER)
TLM other aquatic organisms 1	20 ppm (100 h; Daphnia magna)
Threshold limit other aquatic organisms 2	0.0012 mg/l (Oncorhynchus gorbuscha; SOLUTION >=50%)

12.2. Persistence and degradability

Ammonium Hydroxide, 28-30% w/w (1336-21-6)	
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Biodegradable in the soil. No (test)data on mobility of the components of the mixture available. Ozonation in the air.

Bioaccumulative potential 12.3.

Ammonium Hydroxide, 28-30% w/w (1336-21-6)	
Log Pow	-1.3
Bioaccumulative potential	Bioaccumulation: not applicable.

12.4. Mobility in soil

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

Waste disposal recommendations

: Recycle/reuse. Remove for physico-chemical/biological treatment. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Use appropriate containment to avoid environmental contamination.

Additional information

LWCA (the Netherlands): KGA category 02. Hazardous waste according to Directive

2008/98/EC

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

UN number

UN-No.(DOT) : 2672 DOT NA no. UN2672

14.2. **UN proper shipping name**

DOT Proper Shipping Name

: Ammonia solutions

relative density between 0.880 and 0.957 at 15 degrees C in water, with more than 10 percent

but not more than 35 percent ammonia

Department of Transportation (DOT) Hazard

Classes

: 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) 8 - Corrosive substances



Packing group (DOT)

: III - Minor Danger

DOT Special Provisions (49 CFR 172.102)

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

IP8 - Ammonia solutions may be transported in rigid or composite plastic IBCs (31H1, 31H2 and 31HZ1) that have successfully passed, without leakage or permanent deformation, the

hydrostatic test specified in 178.814 of this subchapter at a test pressure that is not less than 1.5 times the vapor pressure of the contents at 55 C (131 F).

T7 - 4 178.274(d)(2) Normal.............. 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

06/26/2013 EN (English) 6/8

Safety Data Sheet

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

DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
Marine pollutant : P



14.3. Additional information

Other information : No supplementary information available.

State during transport (ADR-RID) : as liquid.

Overland transport

Packing group (ADR) : III

Class (ADR) : 8 - Corrosive substances

Hazard identification number (Kemler No.) : 80
Classification code (ADR) : C5

Danger labels (ADR) : 8 - Corrosive substances



Orange plates

80 2672

Tunnel restriction code : E

Transport by sea

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

passenger vessel.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters",52 - Stow "separated from" acids,85 - Under deck stowage

must be in mechanically ventilated space

EmS-No. (1) : F-A EmS-No. (2) : S-B

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

SECTION 15: Regulatory information

15.1. US Federal regulations

Ammonium Hydroxide, 28-30% w/w (1336-21-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

RQ (Reportable quantity, section 304 of EPA's 1000 lb

List of Lists):

Ammonium Hydroxide, 28-30% w/w (1336-21-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

RQ (Reportable quantity, section 304 of EPA's 1000 lb List of Lists):

15.2. International regulations

CANADA

	Ammonium Hydroxide, 28-30% w/w (1336-21-6) Listed on the Canadian DSL (Domestic Sustances List) inventory.	
	WHMIS Classification	Class E - Corrosive Material

06/26/2013 EN (English) 7/8

Safety Data Sheet

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

Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification Class E - Corrosive Material

EU-Regulations

No additional information available

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

Skin Corr. 1B H314 Aquatic Acute 1 H400

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

C; R34 N; R50

Full text of R-phrases: see section 16

15.2.2. National regulations

Ammonium Hydroxide, 28-30% w/w (1336-21-6)

Listed on the Canadian Ingredient Disclosure List

Ammonium Hydroxide, 28-30% w/w (1336-21-6)

Listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

No additional information available

SECTION 16: Other information

Training advice : Users of breathing apparatus must be trained.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H400	Very toxic to aquatic life

NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

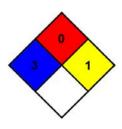
given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated

temperatures and pressures or may react with water with

some release of energy, but not violently.



HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 0 Minimal Hazard
Physical : 1 Slight Hazard

Personal Protection : H

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

06/26/2013 EN (English) 8/8