World Headquarters Hach Company P.O.Box 389 Loveland, CO USA 80539 (970) 669-3050

SAFETY DATA SHEET

MSDS No: M00127

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Ammonia Salicylate Reagent

Catalog Number: 2395266

HACH LANGE GmbH Emergency Telephone Numbers:
Willstätterstrasse 11 (Poison Information Center Main)
40549 Düsseldorf, Germany (+49 (0) 6131 19240) 24 HR

+49-(0)211-52880

SDS Number: M00127

Chemical Name: Not applicable Chemical Formula: Not applicable Chemical Family: Not applicable

Use of the substance/preparation: Reagent for ammonia test

CAS No.: Not applicable

Hazard: May cause irritation. Harmful if swallowed

Date of MSDS Preparation:

Day: 12 **Month:** March **Year:** 2007

Additional Emergency Response Numbers: Austria: +49 (0)6131 19240, Belgium: +32-(0)70-245245, France: +33-(0)1-40370404, Italy: +39-02-66101029, Netherlands: +31-(0)30-2748888, Switzerland: +41-

(0)1-2515151

2. COMPOSITION / INFORMATION ON INGREDIENTS

Sodium Salicylate

EEC Number: 2001980. **CAS No.:** 54-21-7

Percent Range: 40,0 - 50,0

Percent Range Units: weight / weight
Ingredient EEC Symbol: Xn - HARMFUL

Ingredient R phrase(s) (R phrase details given in Heading 16): R 22 TLV: Respirable particles: 3 mg/m³; Inhalable particles: 10 mg/m³

PEL: Total dust: 15 mg/m³; Respirable fraction: 5 mg/m³ **EU Occupational Exposure Limits:** 3 mg/m³, Inhalable dust

Sodium Nitroferricyanide

EEC Number: 2383739 CAS No.: 14402-89-2 Percent Range: < 1,0

Percent Range Units: weight / weight **Ingredient EEC Symbol:** Not applicable

Ingredient R phrase(s) (R phrase details given in Heading 16): Not applicable

TLV: 5 mg/m³ as CN⁻ PEL: 5 mg/m³ as CN⁻

EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust. Cyanides are on the Priority List for OELs.

Other components, each

EEC Number: Not applicable *CAS No.:* Not applicable *Percent Range:* 0,1 - 1,0

Percent Range Units: weight / weight Ingredient EEC Symbol: Not applicable

Ingredient R phrase(s) (R phrase details given in Heading 16): Not applicable

TLV: Not established PEL: Not established

EU Occupational Exposure Limits: Not established

Sodium Citrate

EEC Number: 2006753 CAS No.: 68-04-2

Percent Range: 40,0 - 50,0

Percent Range Units: weight / weight Ingredient EEC Symbol: Not applicable

Ingredient R phrase(s) (R phrase details given in Heading 16): Not applicable

TLV: Not established *PEL:* Not established

EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

Sodium Tartrate

EEC Number: 2127733 CAS No.: 6106-24-7 Percent Range: 10,0 - 20,0

Percent Range Units: weight / weight **Ingredient EEC Symbol:** Not applicable

Ingredient R phrase(s) (R phrase details given in Heading 16): Not applicable

TLV: Not established *PEL:* Not established

EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

3. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: Tan powder

Odor: None

EU Symbols: Xn - HARMFUL

R PHRASES: R 22: Harmful if swallowed.

Protective Equipment:

Potential Health Effects:

Eye Contact (EC): May cause irritation Skin Contact (EC): May cause irritation

Skin Absorption (EC): Harmful if absorbed through the skin Effects similar to those of ingestion Sodium nitroferricyanide produces a delayed cyanide poisoning reaction.

Target Organs (SA E): Central nervous system Blood

Ingestion (EC): Sodium nitroferricyanide produces a delayed cyanide poisoning reaction. May cause:

headache nausea vomiting central nervous system effects

Target Organs (Ing E): Central nervous system Blood

Inhalation: Sodium nitroferricyanide produces a delayed cyanide poisoning reaction. May cause:

headache nausea vomiting central nervous system effects

Target Organs (Inh E): Central nervous system Blood

Medical Conditions Aggravated: Allergies or sensitivity to aspirin or salicylates.

Chronic Effects: Chronic overexposure may cause confusion diarrhea fatigue weakness death Salicylates may cause ringing in the ears (tinnitus), abnormal bleeding, gastric ulceration, mental deterioration, skin eruption, temporary vision loss, and other optical effects.

Cancer / Reproductive Toxicity Information:

This product does NOT contain any IARC listed chemicals.

Additional Cancer / Reproductive Toxicity Information: Contains: an experimental mutagen. an experimental teratogen.

Toxicologically Synergistic Products: None reported

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.

Skin Contact (First Aid): Wash skin with soap and plenty of water. Remove contaminated clothing. Call physician immediately.

Ingestion (First Aid): Induce vomiting using syrup of ipecac or by sticking finger down throat. Never give anything by mouth to an unconscious person. Call physician immediately.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. Call physician.

5. FIRE FIGHTING MEASURES

Flammable Properties: During a fire, this product decomposes to form toxic gases.

Hazardous Combustion Products: May emit acrid smoke and fumes. *Fire / Explosion Hazards:* This product will not burn or explode.

Static Discharge: None reported.

Mechanical Impact: None reported

Extinguishing Media: Dry chemical. Carbon dioxide Alcohol foam.

Extinguishing Media NOT To Be Used: Not applicable Not applicable

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full

protective gear. Evacuate area and fight fire from a safe distance.

6. ACCIDENTAL RELEASE MEASURES

Spill Response Notice:

Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

Containment Technique: Releases of this material may contaminate the environment. Stop spilled material from being released to the environment.

Clean-up Technique: Avoid contact with spilled material. Sweep up material. Dilute with a large excess of water. Flush the spilled material to the drain with a large excess of water. Decontaminate the area of the spill with a soap solution.

Evacuation Procedure: Evacuate local area (15 foot radius or as directed by your facility's emergency response plan) when: a pound or more of loose powder is spilled. If conditions warrant, increase the size of the evacuation.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes skin clothing Do not breathe dust. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

Storage: Store between 10° and 25°C. Keep away from: acids / acid fumes. oxidizers

Special Packaging Instructions: Not applicable

Use of the substance/preparation: Reagent for ammonia test

8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

Engineering Controls: Have an eyewash station nearby. Use a fume hood to avoid exposure to dust, mist or

vapor.

Personal Protective Equipment:

Eye Protection: safety glasses with top and side shields *Skin / Hand Protection:* lab coat disposable latex gloves

Inhalation Protection: laboratory fume hood

Precautionary Measures: eyes skin clothing Do not breathe: dust Wash thoroughly after handling. Use

with adequate ventilation. Keep away from: acids/acid fumes oxidizers

TLV: Not established. *PEL:* Not established.

EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

9. PHYSICAL / CHEMICAL PROPERTIES

Appearance: Tan powder *Physical State*: Solid

Odor: None

pH: 7,84 (5% solution)

Vapor Pressure: Not applicable

Vapor Density (air = 1): Not applicable

Boiling Point: Not applicable **Melting Point:** 97°C (206,6°F) **Flash Point:** Not applicable **Method:** Not applicable

Autoignition Temperature: Not determined.

Flammability Limits:

Lower Explosion Limits: Not applicable *Upper Explosion Limits:* Not applicable

Specific Gravity (water = 1): 1,689

Evaporation Rate (water = 1): Not applicable Volatile Organic Compounds Content: None.

Partition Coefficient (n-octanol / water): Not applicable

Solubility:

Water: Soluble. *Acid:* Soluble.

Other: Not determined.

Metal Corrosivity:

Steel: Not applicable

Aluminum: Not applicable

10. STABILITY / REACTIVITY

Chemical Stability: Stable when stored under proper conditions.

Conditions to Avoid: Heating to decomposition. Extreme temperatures

Reactivity / Incompatibility: Incompatible with: acids iodine iron salts lead acetate organic materials

oxidizers silver nitrate sodium phosphate

Hazardous Decomposition: Contact with acids/acid fumes releases toxic cyanide gas. Heating to decomposition releases toxic and/or corrosive fumes of: cyanide nitrogen oxides sodium oxides

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Product Toxicological Data:LD50: None reported.*LC50:* None reported.

Dermal Toxicity Data: None reported. Skin and Eye Irritation Data: None reported.

Mutation Data: None reported.

Reproductive Effects Data: None reported.

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Ingredient Toxicological Data: Sodium Salicylate: Oral rat $LD_{50} = 1200$ mg/kg; Sodium Citrate: Oral rat $LD_{50} > 8$ g/kg; Sodium Tartrate: Oral rabbit $LD_{50} = 5290$ mg/kg; Sodium Nitroferricyanide: Oral rat $LD_{50} = 99$ mg/kg.

This product does NOT contain any IARC listed chemicals.

12. ECOLOGICAL INFORMATION

Product Ecological Information: --

No ecological data available for this product.

Ingredient Ecological Information: --

No ecological data available for the ingredients of this product.

13. DISPOSAL CONSIDERATIONS

NOTICE (*Disposal*): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information. In Europe: Chemical and analysis solutions must be disposed of in compliance with the respective national regulations. Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

14. TRANSPORT INFORMATION

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I.C.A.O.:

I.C.A.O. Proper Shipping Name: Not Currently Regulated

ICAO Hazard Class: NA
ICAO Subsidiary Risk: NA
ICAO UN/ID Number: NA
ICAO Packing Group: NA
I.M.O.:

I.M.O. Proper Shipping Name: Not Currently Regulated

I.M.O. Hazard Class: NA
I.M.O. Subsidiary Risk: NA
I.M.O. UN Number: NA
I.M.O. Packing Group: NA
A.D.R.:

A.D.R. Proper Shipping Name: Not Currently Regulated
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A.D.P. Harrad Clares NA

A.D.R Hazard Class: NA A.D.R. Subsidiary Risk: NA

A.D.R. UN-Number:: NA A.D.R. Packing Group: NA

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit Hazard Class: 9 UN Number 3316

15. REGULATORY INFORMATION

National Inventories:

EEC Inventory Status: All ingredients used to make this product are listed on EINECS / ELINCS.

EEC Number: Not applicable

EEC LABEL COPY:

EU Symbols: Xn - HARMFUL

R PHRASES: R 22: Harmful if swallowed.

S PHRASES: S 24/25: Avoid contact with skin and eyes. S 37: Wear suitable gloves.

16. OTHER INFORMATION

References: TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. Technical Judgment. Sixth Annual Report on Carcinogens, 1991. U.S. Department of Health and Human Services. Rockville, MD: Technical Resources, Inc. 1991. Sax, N. Irving. Dangerous Properties of Industrial Materials, 7th Ed. New York: Van Nostrand Reinhold Co., 1989. List of Dangerous Substances Classified in Annex I of the EEC Directive (67/548) - Classification, Packaging and Labeling of Dangerous Substances, Amended July 1992. In-house information. IARC Monographs on the Evaluation of the Carcinogenic Risks to Humans. World Health Organization (Volumes 1-42) Supplement 7. France: 1987. Gosselin, R. E. et al. Clinical Toxicology of Commercial Products, 5th Ed. Baltimore: The Williams and Wilkins Co., 1984. Cassaret and Doull's Toxicology, 3rd Ed. New York: Macmillan Publishing Co., Inc., 1986. Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor).

R PHRASES: R 22: Harmful if swallowed.

Use of the substance/preparation: Reagent for ammonia test

Revision Summary: Updates in Section(s) 14,

Legend:

NA - Not Applicable w/w - weight/weight
ND - Not Determined w/v - weight/volume
NV - Not Available v/v - volume/volume

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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SAFETY DATA SHEET

MSDS No: M00128

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Ammonia Cyanurate Reagent

Catalog Number: 2395466

HACH LANGE GmbH Emergency Telephone Numbers:
Willstätterstrasse 11 (Poison Information Center Mainz)
40549 Düsseldorf, Germany
+49-(0)211-52880 (+49 (0) 6131 19240) 24 H

SDS Number: M00128 Responsible Person:

Chemical Name: Not Applicable Chemical Formula: Not Applicable Chemical Family: Not applicable

Use of the substance/preparation: Reagent for ammonia test

CAS No.: Not Applicable Hazard: Causes burns. Date of MSDS Preparation:

Day: 12Month: JulyYear: 2007

Additional Emergency Response Numbers: Austria: +49 (0)6131 19240, Belgium: +32-(0)70-245245, France: +33-(0)1-40370404, Italy: +39-02-66101029, Netherlands: +31-(0)30-2748888, Switzerland: +41-

(0)1-2515151

Additional European Addresses:

2. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: White powder

Odor: Chlorine

EU Symbols: C - CORROSIVE *R PHRASES:* R 34: Causes burns.

Protective Equipment:
Potential Health Effects:

Eye Contact (EC): Causes burns Skin Contact (EC): Causes burns Skin Absorption (EC): None Reported Target Organs (SA E): None Reported

Ingestion (EC): Causes: burns May cause: dizziness nausea kidney damage liver damage

Target Organs (Ing E): Liver Kidneys Central nervous system Bone marrow

Inhalation: Causes: burns May cause: shortness of breath coughing

Target Organs (Inh E): None Reported

Medical Conditions Aggravated: Pre-existing: Eye conditions Skin conditions Respiratory conditions

Chronic Effects: Lithium compounds have been implicated in development of aplastic anemia. Signs of lithium poisoning include dehydration, extreme weight loss, fine tremor of hands, nausea, vomiting and diarrhea, Chronic overexposure may cause central nervous system effects kidney damage liver damage *Cancer / Reproductive Toxicity Information:*

This product does NOT contain any IARC listed chemicals.

Additional Cancer / Reproductive Toxicity Information: None reported

Toxicologically Synergistic Products: None reported

3. COMPOSITION / INFORMATION ON INGREDIENTS

Sodium Dichloroisocyanurate

EEC Number: 2207677 CAS No.: 2893-78-9 Percent Range: 1,0 - 5,0

Percent Range Units: weight / weight Ingredient EEC Symbol: Not applicable

Ingredient R phrase(s) (R phrase details given in Heading 16): Not applicable

TLV: Not established PEL: Not established

EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

Lithium Hydroxide, Anhydrous

EEC Number: 2151834 CAS No.: 1310-65-2 Percent Range: 1,0 - 5,0

Percent Range Units: weight / weight Ingredient EEC Symbol: C - CORROSIVE

Ingredient R phrase(s) (R phrase details given in Heading 16): R 34 TLV: 3mg/m³ Respirable Particles; 10 mg/m³ Inhalable particles PEL: 5 mg/m³ Respirable Fraction; 15 mg/m³ Total Dust EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

Sodium Citrate

EEC Number: 2006753 **CAS No.:** 68-04-2

Percent Range: 80,0 - 90,0

Percent Range Units: weight / weight Ingredient EEC Symbol: Not applicable

Ingredient R phrase(s) (R phrase details given in Heading 16): Not applicable

TLV: Not established PEL: Not established

EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

Sodium Tartrate

EEC Number: 2127733 **CAS No.:** 6106-24-7 **Percent Range:** 5,0 - 15,0

Percent Range Units: weight / weight Ingredient EEC Symbol: Not applicable

Ingredient R phrase(s) (R phrase details given in Heading 16): Not applicable

TLV: Not established PEL: Not established

EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.

Skin Contact (First Aid): Wash skin with soap and plenty of water for 15 minutes. Remove contaminated clothing. Call physician immediately.

Ingestion (First Aid): Do not induce vomiting. Give 1-2 glasses of water. Call physician immediately.

Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. Call physician.

5. FIRE FIGHTING MEASURES

Flammable Properties: During a fire, irritating and highly toxic gases may be generated by thermal

decomposition.

Hazardous Combustion Products: May emit toxic and corrosive fumes.

Fire / Explosion Hazards: Not combustible.

Static Discharge: None reported. Mechanical Impact: None reported

Extinguishing Media: Dry chemical. Carbon dioxide Water.

Extinguishing Media NOT To Be Used: Not applicable Not applicable

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full

protective gear.

6. ACCIDENTAL RELEASE MEASURES

Spill Response Notice:

Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

Containment Technique: Cover spilled solid material with sand or other inert material. Stop spilled material from being released to the environment.

Clean-up Technique: Scoop up spilled material into a large beaker and dissolve with water. Adjust to a pH between 6 and 9 with an acid, such as sulfuric or citric. Flush reacted material to the drain with a large excess of water. Decontaminate the area of the spill with a soap solution.

Evacuation Procedure: Evacuate local area (15 foot radius or as directed by your facility's emergency response plan) when: any quantity is spilled. If conditions warrant, increase the size of the evacuation.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes skin clothing Do not breathe dust. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

Storage: Protect from: heat moisture Store away from: acids / acid fumes.

Special Packaging Instructions: Not applicable

Use of the substance/preparation: Reagent for ammonia test

8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

Engineering Controls: Have an eyewash station nearby. Have a safety shower nearby. Use a fume hood to avoid exposure to dust, mist or vapor. Maintain general industrial hygiene practices when using this product. *Personal Protective Equipment:*

Eye Protection: safety glasses with top and side shields Skin / Hand Protection: disposable latex gloves lab coat

Inhalation Protection: adequate ventilation

Precautionary Measures: Avoid contact with: eyes skin clothing Do not breathe: dust Wash thoroughly

after handling. Keep away from: acids/acid fumes metals

TLV: 3mg/m³ Respirable Particles; 10 mg/m³ Inhalable particles **PEL:** 5 mg/m³ Respirable Fraction; 15 mg/m³ Total Dust EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

9. PHYSICAL / CHEMICAL PROPERTIES

Appearance: White powder

Physical State: Solid Odor: Chlorine

pH: of a 5% solution = 12,33 Vapor Pressure: Not applicable *Vapor Density (air = 1):* Not applicable

Boiling Point: Not applicable *Melting Point:* >240 °C; >464 °F Flash Point: Not applicable

Method: Not applicable

Autoignition Temperature: Not determined

Flammability Limits:

Lower Explosion Limits: Not applicable Upper Explosion Limits: Not applicable

Specific Gravity (water = 1): 1,783

Evaporation Rate (water = 1): Not applicable

Volatile Organic Compounds Content: None reported Partition Coefficient (n-octanol / water): Not applicable

Solubility:

Water: Soluble Acid: Soluble

Other: Not determined Metal Corrosivity: Steel: 0,00 in/yr

Aluminum: 0,803 in/yr

10. STABILITY / REACTIVITY

Chemical Stability: Stable when stored under proper conditions.

Conditions to Avoid: Heating to decomposition. Extreme temperatures Excess moisture

Reactivity / Incompatibility: Incompatible with: acids

Hazardous Decomposition: Contact with acids releases toxic and/or corrosive fumes of: chlorides nitrogen

oxides

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Product Toxicological Data:

LD50: None Reported LC50: None Reported

Dermal Toxicity Data: None Reported Skin and Eye Irritation Data: None Reported

Mutation Data: None Reported

Reproductive Effects Data: None Reported

Ingredient Toxicological Data: Sodium Citrate Oral rat LD50 > 8 g/k; Sodium Tartrate Oral rabbit LD50 = 5290 mg/kg; Lithium Hydroxide Oral rat LD50 = 225 mg/kg; Sodium Dichloroisocyanurate Oral rat LD50 = 1400 mg/kg

12. ECOLOGICAL INFORMATION

Product Ecological Information: --

No ecological data available for this product.

Ingredient Ecological Information: --

No ecological data available for the ingredients of this product.

13. DISPOSAL CONSIDERATIONS

NOTICE (*Disposal*): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information. In Europe: Chemical and analysis solutions must be disposed of in compliance with the respective national regulations. Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

14. TRANSPORT INFORMATION

I.C.A.O.:

I.C.A.O. Proper Shipping Name: Lithium Hydroxide Mixture

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ICAO Hazard Class: 8 ICAO Subsidiary Risk: NA ICAO UN/ID Number: UN2680

ICAO Packing Group: II

I.M.O.:

I.M.O. Proper Shipping Name: Lithium Hydroxide Mixture

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I.M.O. Hazard Class: 8 I.M.O. Subsidiary Risk: NA I.M.O. UN Number: UN2680 I.M.O. Packing Group: II

A.D.R.:

A.D.R. Proper Shipping Name: Lithium Hydroxide Mixture

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A.D.R. Hazard Class: 8 A.D.R. Subsidiary Risk: NA A.D.R. UN-Number:: 2680 A.D.R. Packing Group: II

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit Hazard Class: 9 UN Number 3316

15. REGULATORY INFORMATION

National Inventories:

EEC Inventory Status: All ingredients used to make this product are listed on EINECS / ELINCS.

EEC Number: Not applicable

EEC LABEL COPY:

EU Symbols: C - CORROSIVE R PHRASES: R 34: Causes burns.

S PHRASES: S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

References: NIOSH Registry of Toxic Effects of Chemical Substances, 1985-86. Cincinnati: U.S. Department of Health and Human Services, April, 1987. Patty, Frank A. Industrial Hygiene and Toxicology, 3rd Revised Edition. Volume 2. New York: A Wiley-Interscience Publication, 1981. Gosselin, R. E. et al. Clinical Toxicology of Commercial Products, 5th Ed. Baltimore: The Williams and Wilkins Co., 1984. Technical Judgment. In-house information. Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992.

R PHRASES: R 34: Causes burns.

Use of the substance/preparation: Reagent for ammonia test

Revision Summary: Updates in Section(s) 2,

Legend:

NA - Not Applicable w/w - weight/weight
ND - Not Determined w/v - weight/volume
NV - Not Available v/v - volume/volume

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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