

Safety Data Sheet

Material Name: Trisodium Phosphate, 12 Hydrate Crystalline (Technical Grade)

*** Section 1 - Chemical Product and Company Identification ***

Chemical Name: Trisodium Phosphate, 12 Hydrate Crystalline (Technical Grade)

Product Use: For Commercial Use

RESTRICTIONS on USE

NOT TO BE USED AS A PESTICIDE. THIS PRODUCT IS NOT TO BE USED IN VIOLATION OF ANY PATENTS. CHEM ONE LTD. DISCLAIMS ANY AND ALL WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR APPLICATION. IN NO EVENT SHALL CHEM ONE LTD. OR ITS SUPPLIERS BE LIABLE FOR ANY DAMAGES WHATSOEVER INCLUDING DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, LOSS OF BUSINESS PROFITS OR SPECIAL DAMAGES, EVEN IF CHEM ONE LTD. OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OF LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES SO THE FOREGOING LIMITATION MAY NOT APPLY.

Supplier Information

Level 7 Chemical

255 Sturgis Rd

Conway, AR 72034

Phone: (855) 927-1777

Emergency # (800) 424-9300

General Comments: NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

*** Section 2 - Hazards Identification ***

GHS HAZARDS

Hazard Classes

Skin corrosion
Serious eye damage

Hazard Categories

Category 1B
Category 1

Signal Word: Danger



Pictograms:

Hazard Statements

PHYSICAL HAZARDS:

None

HEALTH HAZARDS:

H314: Causes serious skin burns and eye damage

ENVIRONMENTAL HAZARDS:

None

PRECAUTIONARY STATEMENTS:

P102: Keep out of reach of children

P202: Do not handle until all safety precautions have been read and understood

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P261: Avoid breathing dust
P273: Avoid release to the environment
P280: Wear protective gloves, clothing and eye protection

RESPONSE STATEMENTS:

P301 +310+ P331: IF SWALLOWED: USA Immediately call the National POISON CENTER at **800-222-1222**. DO NOT induce vomiting
P303+P361+353: IF ON SKIN Take off immediately all contaminated clothing. Rinse skin with water
P304+340: IF INHALED, Remove to fresh air and keep comfortable for breathing
P305+P351: IF IN EYES rinse cautiously with water for at least 15 minutes
P306+P361: IF ON CLOTHING, Take off contaminated clothing
P370: In case of fire use foam, carbon dioxide, dry chemical to extinguish fire
P376: Stop a spill if safe to do so. See section 6 for proper clean up

STORAGE STATEMENTS:

P403: Keep Cool Store in a well-ventilated place

DISPOSAL STATEMENTS:

P501: Dispose of content and/or container in accordance with local, regional, national or international regulations

***** Section 3 - Composition / Information on Ingredients *****

CAS #	Component	Percent
10101-89-0	Trisodium Phosphate Dodecahydrate	98-100

Synonyms: Sodium phosphate tribasic, tribasic sodium phosphate, trisodium orthophosphate, Orthophosphate trisodique, TSP

***** Section 4 - First Aid Measures *****

Emergency Overview

This product is a colorless, odorless solid, in crystal form. This product is corrosive, and can cause moderate to severe irritation to contaminated tissues which come in contact with dusts or particulates of this product. If ingested burns can occur to the digestive system. This product is not flammable or reactive. Thermal decomposition of this product produces irritating vapors and toxic gases (e.g. phosphorous oxides). Emergency responders should wear proper personal protective equipment for the releases to which they are responding.

Hazard Statements

DANGER! MAY BE FATAL IF SWALLOWED. MAY CAUSE BURNS TO THE EYES AND SKIN. EYE CONTACT CAN RESULT IN CORNEAL DAMAGE. MAY CAUSE DIFFICULT BREATHING AND RESPIRATORY TRACT IRRITATION. Avoid contact with eyes and skin. Avoid breathing dusts. Keep containers closed. Use with adequate ventilation. Wash thoroughly after handling. Use with adequate ventilation.

Potential Health Effects: Eyes

Exposure to particulates or solution of this product may cause moderate to severe irritation of the eyes, including burns, depending on duration and concentration of contact. Severe contact with the eyes can cause corneal injury, including clouding and burns, which could lead to blindness. Permanent damage (cloudiness of the cornea) has resulted from contact with Trisodium Phosphate, Anhydrous solution in two case reports, one involving hot solution. Concentrations were not reported. In another case report, injury occurred as a result of a splash of aqueous solution, but healed within 48 hours (concentration not reported).

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*** Section 4 – First Aid Measures Continued ***

Potential Health Effects: Skin

This product can cause moderate to severe irritation of the skin, depending on duration and concentration of exposure. Severe exposure or contact in the presence of moisture, or if product is in solution can cause burns. Alkalies penetrate skin slowly. The extent of damage therefore depends on duration of contact. Repeated skin contact to low levels may lead to dermatitis (red, cracked skin).

Potential Health Effects: Ingestion

Ingestion of this product in large volumes may irritate or burn the tissues of the mouth, esophagus, and other tissues of the digestive system. Symptoms of exposure can include vomiting, diarrhea, and nausea. In severe cases, death may result. The estimated fatal dose of sodium phosphates is 50 g.

Potential Health Effects: Inhalation

Breathing dusts or particulates generated by this product or to mists if in solution, can lead to moderate to severe irritation of the nose, throat or respiratory system, depending on duration and concentration of exposure. Symptoms of minor exposure could include coughing, wheezing, and shortness of breath. According to one report, irritation of the nose and throat was caused by exposure to 0.5 to 2.0 mg/m³ airborne dust for one hour. Irritation has also been reported after short exposures above 7-10 mg/m³. Severe inhalation exposure can result in pulmonary edema (a condition of fluid in the lungs), which can be fatal.

First Aid: Eyes

In case of contact with eyes, rinse immediately with plenty of water for at least 20 minutes. Seek immediate medical attention.

First Aid: Skin

Remove all contaminated clothing. For skin contact, wash thoroughly with soap and water for at least 20 minutes. Seek immediate medical attention if irritation develops or persists. Completely decontaminate clothing, shoes, and leather goods before reuse.

First Aid: Ingestion

Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Immediately give large amounts of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical advice immediately. Never give anything by mouth to a victim who is unconscious or having convulsions.

First Aid: Inhalation

Remove source of contamination or move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Get immediate medical attention.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

Trisodium Phosphate Dodecahydrate is not combustible, and does not contribute to the intensity of a fire. Closed containers exposed to heat may explode. When involved in a fire, this material may decompose and produce irritating vapors, acrid smoke and toxic gases. Solutions can react with metals such as aluminum, zinc and galvanized iron to produce highly flammable hydrogen gas, which may explode if ignited.

Hazardous Combustion Products

Oxides of phosphorus.

Extinguishing Media

Use methods for the surrounding fire and other materials involved in the fire.

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*** Section 5 - Fire Fighting Measures Continued ***

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self-contained breathing apparatus. If possible control runoff from fire control or dilution water to prevent environmental contamination.

NFPA Ratings: Health: 2 Fire: 0 Instability: 1 Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop the flow of material, if this can be done without risk. Contain the discharged material. If sweeping of a contaminated area is necessary use a dust suppressant agent, which does not react with product (see Section 10 for incompatibility information).

Clean-Up Procedures

Small releases can be cleaned-up wearing gloves, goggles and suitable body protection. In case of a large spill (in which excessive dusts can be generated), clear the affected area, protect people, and respond with trained personnel. Do not allow the spilled product to enter public drainage system or open water courses. Place all spill residues in an appropriate container and seal. Thoroughly wash the area after a spill or leak clean-up. Prevent spill rinsate from contamination of storm drains, sewers, soil or groundwater.

Evacuation Procedures

Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. In case of large spills, follow all facility emergency response procedures.

Special Procedures

Remove soiled clothing and launder before reuse. Avoid all skin contact with the spilled material. Have emergency equipment readily available.

*** Section 7 - Handling and Storage ***

Handling Procedures

All employees who handle this material should be trained to handle it safely. Do not breathe dust. Avoid all contact with skin and eyes. Use this product only with adequate ventilation. Wash thoroughly after handling.

Storage Procedures

Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Storage areas should be made of corrosion- and fire-resistant materials. Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Use corrosion-resistant structural materials, lighting, and ventilation systems in the storage area. Floors should be sealed to prevent absorption of this material. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Have appropriate extinguishing equipment in the storage area (i.e., sprinkler system, portable fire extinguishers).

Empty containers may contain residual particulates; therefore, empty containers should be handled with care. Do not cut, grind, weld, or drill near this container. Never store food, feed, or drinking water in containers that held this product. Keep this material away from food, drink and animal feed. Do not store this material in open or unlabeled containers. Limit quantity of material stored.

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*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Follow the applicable exposure limits.

B: Component Exposure Limits

The exposure limits given are for Particulates Not Otherwise Classified.

ACGIH: 10 mg/m³ TWA (Inhalable fraction)
3 mg/m³ TWA (Respirable fraction)

OSHA: 15 mg/m³ TWA (Total dust)
5 mg/m³ TWA (Respirable fraction)

DFG MAKs 4 mg/m³ TWA (Inhalable fraction)
1.5 mg/m³ TWA (Respirable fraction)

Engineering Controls

Ventilation must be sufficient to effectively remove and prevent buildup of dust or fumes that may be generated during handling or thermal processing. Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132). Please reference applicable regulations and standards for relevant details.

Personal Protective Equipment: Eyes/Face

Wear safety glasses (or goggles). If necessary, refer to U.S. OSHA 29 CFR 1910.133.

Personal Protective Equipment: Skin

Use impervious gloves. Gloves should be tested to determine their suitability for prolonged contact with this material. If necessary, refer to U.S. OSHA 29 CFR 1910.138.

Personal Protective Equipment: Respiratory

None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask. If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998).

Personal Protective Equipment: General

Wash hands thoroughly after handling material. Do not eat, drink or smoke in work areas. Have a safety shower or eye-wash fountain available.

Protective Clothing Pictograms



Splash Goggles



Protective Apron



Dust Respirator



Gloves

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*** Section 9 - Physical & Chemical Properties ***

Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

Appearance:	White crystals	Odor:	Odorless
Physical State:	Solid	pH:	12.0 (1% solution)
Vapor Pressure:	Zero	Vapor Density:	Not applicable
Boiling Point:	Not applicable	Melting Point:	166 deg F (73 deg
C) Solubility (H2O):	28 g/100 ml water @ 15 deg C	Specific Gravity:	1.62(H2O = 1)
Freezing Point:	Not applicable	Particle Size:	Not determined
Softening Point:	Not applicable	Bulk Density:	Not available
Flash Point: Upper	Not flammable	Chemical Formula: Method	Na3PO4•12H2O
Flammable Limit (UEL):		Used: Lower Flammable	
Auto Ignition:	Not applicable	Limit (LEL):	Not applicable
Flammability			Not applicable
Classification:	Not applicable	Rate of Burning:	Not applicable

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under conditions of standard temperature and pressure. Trisodium Phosphate can react with air to form disodium phosphate and sodium carbonate. Trisodium phosphate forms strong caustic solution, similar to soda lye. Solutions can react with metals such as aluminum, zinc and galvanized iron to produce highly flammable hydrogen gas that may explode if ignited.

Chemical Stability: Conditions to Avoid

Avoid high temperatures, exposure to air and incompatible materials.

Incompatibility

Trisodium Phosphate is incompatible with strong acids and may react violently; in solution reaction may cause splattering. In solution, Trisodium Phosphate will react with metals such as aluminum, zinc and galvanized iron to form flammable hydrogen gas. Trisodium Phosphate may react violently with magnesium. Trisodium Phosphate can be corrosive with some metals, including aluminum, zinc and tin. Trisodium Phosphate is corrosive to gray cast iron at high temperatures and may be corrosive to steel or brass, if wet.

Hazardous Decomposition

Phosphorus oxides.

Hazardous Polymerization

Will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

May cause moderate to severe eye, skin, nose, throat and respiratory tract irritation or burns. After 0.1 ml of Trisodium Phosphate was placed in the eye of a rabbit, a corrosive effect was seen within 24 hours. After 14 days, eye regained normal appearance. Moderate irritation was observed when 0.5 mg/L of Trisodium Phosphate was held in continuous contact with intact skin of a rabbit and abraded skin for 24 hours.

Chronic: Long term skin overexposure to this product may lead to dermatitis (red, itchy skin).

B: Component Analysis - LD50/LC50

Trisodium Phosphate:

LD₅₀ (Oral-Rat) 7400 mg/kg; LD₅₀ (Intraperitoneal-Mouse) 430 mg/kg; LD₅₀ (Skin-Rabbit) > 7940 mg/kg

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*** Section 11 - Toxicological Information Continued ***

C: Component Analysis - TDLo/LDLo

LDLo (Intravenous-Rabbit) 1580 mg/kg

Carcinogenicity

A: General Product Information

Trisodium Phosphate is not considered carcinogenic by ACGIH, IARC, NIOSH, NTP, or OSHA.

B: Component Carcinogenicity

No information available.

Epidemiology

No information available.

Neurotoxicity

No information available.

Mutagenicity

Sex Chromosome Loss and Non-Disjunction (Oral-Drosophila melanogaster) 11 pph

Teratogenicity

No information available.

Other Toxicological Information

LD (Skin-Rabbit) > 300 mg/kg

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

Product can be dangerous to aquatic life in high concentrations as it will increase the pH of the aquatic environment.

B: Ecotoxicity

No information available.

Environmental Fate

Product is not expected to accumulate in the food chain.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

EPA waste code for corrosivity (D002) may be required. Wastes should be tested to determine applicability.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

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*** Section 14 - Transportation Information ***

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

US DOT Information

Shipping Name: Not applicable.

Hazard Class: Not applicable

UN/NA #: Not applicable

Packing Group: Not applicable

Required Label(s): Not applicable

RQ Quantity: Not applicable

NOTE: In single package greater than 5,000 lbs.

US DOT 49 CFR 100-185 Revised July 28, 2015 Information



UN/NA #: UN 3077

Shipping Name: Environmentally Hazardous Substance, solid, n.o.s. (Sodium Phosphate Tribasic)

Hazard Class: 9

Packing Group: III

Required Label(s): Class 9

Special Provision: 8, 146, 335, A112, B54, IB8, IP2, N20, T1, TP33

Packaging: 172.155, 172.213

RQ Quantity: For a single package less than the RQ of 5000lb the RQ designation should be not be used.

Please refer to the most recent edition of the "International Air Transport Association (IATA)" Regulations

Please refer to the most recent Amendment of the "International Maritime Dangerous Goods (IMDG) Code"

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

Trisodium Phosphate Dodecahydrate (CSA # 10101-89-0) is not on the TSCA inventory. As a hydrate, Trisodium Phosphate Dodecahydrate is accepted from TSCA Inventory requirements (per 40 CFR 720.3 (u) (2)).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

SARA 302 (EHS TPQ)

There are no specific Threshold Planning Quantities for Trisodium Phosphate Dodecahydrate. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs. (4,540 kg) therefore applies, per 40 CFR 370.20.

Trisodium Phosphate Dodecahydrate (10101-89-0)

CERCLA: final RQ = 5000 pounds (2270 kg) (Listed under 'Sodium phosphate, tribasic')

The following identified ingredients are not on the TSCA Inventory:

10101-89-0 Trisodium Phosphate Dodecahydrate

C: Sara 311/312 Tier II Hazard Ratings:

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Component	CAS #	Fire Hazard	Reactivity Hazard	Pressure Hazard	Immediate Health Hazard	Chronic Health Hazard
Trisodium Phosphate Dodecahydrate	10101-89-0	No	No	No	Yes	No

State Regulations

A: General Product Information

California Proposition 65

Trisodium Phosphate Dodecahydrate is not on the California Proposition 65 chemical lists.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Trisodium Phosphate Dodecahydrate	10101-89-0	Y	N	Y	N	Y	Y

***** Section 15 - Regulatory Information Continued *****

Other Regulations

A: General Product Information

Trisodium Phosphate Anhydrous is designated as a hazardous substance under section 311(b) (2) (A) of the Federal Water Pollution Control Act and further regulated by the Clean Water Act Amendments of 1977 and 1978. These regulations apply to discharges of this substance.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Trisodium Phosphate Dodecahydrate	10101-89-0	No	No	Unlisted

C: Component Information (Canada)

Trisodium Phosphate Dodecahydrate is not listed in the WHMIS IDL

ANSI LABELING (Z129.1):

DANGER! MAY BE FATAL IF SWALLOWED. CAUSES SKIN AND EYE BURNS. HARMFUL IF INHALED. Do not taste or swallow. Do not get on skin or in eyes. Avoid breathing dusts or particulates. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Wear gloves, goggles, face shields, suitable body protection, and NIOSH/MSHA-approved respiratory protection, as appropriate. **FIRST-AID:** In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If inhaled, remove to fresh air. If ingested, do not induce vomiting. Get medical attention. **IN CASE OF FIRE:** Use water fog, dry chemical, CO₂, or "alcohol" foam. **IN CASE OF SPILL:** Absorb spill with inert material or neutralizing agent for bases. Place residue in suitable container. Consult Material Safety Data Sheet for additional information.

***** Section 16 - Other Information *****

Other Information

The supplier shall not be responsible for the use of any information, product, method, or apparatus herein presented ("Information"), and you must make your own determination as to its suitability and completeness for your own use, for the protection of the environment, and for health and safety purposes. You assume the entire risk of relying on this Information. In no event shall the supplier be responsible for damages of any nature whatsoever resulting from the use of this product or products, or reliance upon this Information. By providing this Information, the supplier neither can nor intends to control the method or manner by which you use, handle, store, or transport the supplier's products. If any materials are mentioned that are not the suppliers products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed. The supplier makes no representations or warranties, either express or implied of merchantability, fitness for a particular purpose or of any other nature regarding this information, and nothing herein waives any of the suppliers conditions of sale. This information could include technical inaccuracies or typographical errors. The supplier may make improvements and/or changes in the product (s) and/or the program (s) described in this information at any time.

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Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration

Contact: Sue Palmer-Koleman, PhD

Contact Phone: (713) 896-9966

Revision Log

07/11/00 10:50AM SEP Text in Sect 12 "will lower pH", Changed to "will increase pH".
06/02/01 9:31 AM HDF Checked exposure limits; made changes to Sect 9; overall review, add SARA 311/312 Haz Ratings.
08/20/01 6:00 PM CLJ Add Shipments by Air information to Section 14, Changed contact to Sue, non-800 Chemtrec Num.
09/30/03: 11:10 AM HDF General Review and up-date of the entire MSDS. Up-date of HMIS categories. Up-date of Section 8. Addition of Stability information, Section 10. Up-date of toxicity data, Section 11. Up-date of Section 14. Addition of Clean Water Act information, Section 15.
06/22/05: 11:10 SEP Updated IATA, Section 14
10/23/07 2:31pm SEP Updated IATA Section 14
12/27/2010 4:00 PM SEP Updated IATA
07/30/2015 GHS Revisions all sections
This is the end of SDS

Revised By:

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