

SAFETY DATA SHEET

Clothianidin technical



Revision Date: 2020/09/08

Spec ID: 900000055796

Date of last issue: 2020/08/06

Date of first issue: 2012/10/29

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Clothianidin technical

Synonyms : DANTOTSU TG

Manufacturer or supplier's details

Company : SUMITOMO CHEMICAL COMPANY, LIMITED

Contact person : AgroSolutions Division-International, Marketing Dept.
27-1, Shinkawa 2-chome, Chuo-ku, Tokyo 104-8260, Japan

Telephone : +81-3-5543-5731

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Emergency telephone number : Asia-Pacific region (excluding China):
+65-3158-1074(CARECHEM24, Singapore)
China:400-120-6011(CARECHEM24, China, toll-free, access from China only)
Europe, Americas (excluding USA), Middle East, Africa, Israel (Europe and English Language speaking countries):
+44-1235-239-670(CARECHEM24, UK)
Middle East/Africa (Arabic speaking countries):
+44-1235-239-671(CARECHEM24, UK)
USA (Domestic call):+1-800-424-9300(CHEMTREC, USA)
USA (International call; collect calls accepted):
+1-703-527-3887(CHEMTREC, USA)

Recommended use of the chemical and restrictions on use

Use : Active ingredient for crop protection insecticide

2. HAZARDS IDENTIFICATION

GHS Classification

Explosives : Classification not possible

Flammable gases : Not applicable

Aerosols : Not applicable

Oxidizing gases : Not applicable

Gases under pressure : Not applicable

Flammable liquids : Not applicable

Flammable solids : Not classified

Self-reactive substances and mixtures : Classification not possible

Pyrophoric liquids : Not applicable

Pyrophoric solids : Not applicable

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Self-heating substances and mixtures	:	Classification not possible
Substances and mixtures, which in contact with water, emit flammable gases	:	Not applicable
Oxidizing liquids	:	Not applicable
Oxidizing solids	:	Classification not possible
Organic peroxides	:	Classification not possible
Corrosive to metals	:	Classification not possible
Desensitised explosives	:	Classification not possible
Acute toxicity (Oral)	:	Category 5
Acute toxicity (Dermal)	:	Not classified
Acute toxicity (Inhalation - gas)	:	Not applicable
Acute toxicity (Inhalation - vapor)	:	Classification not possible
Acute toxicity (Inhalation - dust and mist)	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/eye irritation	:	Not classified
Respiratory sensitisation	:	Classification not possible
Skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity - single exposure	:	Oral Category 1 (Nervous system) Dermal Not classified Inhalation Not classified
Specific target organ toxicity - repeated exposure	:	Oral Category 2 (Blood) Dermal Classification not possible Inhalation Classification not possible
Aspiration hazard	:	Classification not possible
Short-term (acute) aquatic hazard	:	Category 1

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Long-term (chronic) aquatic hazard : Category 1

Hazardous to the ozone layer : Classification not possible

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements :
H303 May be harmful if swallowed.
H370 Causes damage to Nervous system.
H373 May cause damage to Blood through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :
Prevention:
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P264 Wash face, hands and any exposed skin thoroughly after handling.
Response:
P391 Collect spillage.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P308 + P311 + P313 IF exposed or concerned: Call a POISON CENTER/doctor. Get medical advice/attention.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/container appropriately in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification

May cause a dust explosion.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical name	CAS No.	Concentration(%)
(E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine (ISO common name: clothianidin)	210880-92-5 (formerly 205510-53-8)	≥ 95.0

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4. FIRST AID MEASURES

- If inhaled : Remove person to fresh air and keep comfortable for breathing.
Administer oxygen if breathing is difficult.
If breathing has stopped, apply artificial respiration.
Do not use mouth-to-mouth method.
Rinse nose, mouth and throat with water.
Keep person warm with a blanket etc.
Get immediate medical advice/ attention.
If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Effect of exposure to substance may be delayed.
Medical observation is indicated.
- In case of skin contact : Wash with plenty of water.
Remove/Take off immediately contaminated clothing and shoes.
If skin irritation or rash occurs: Get medical advice/ attention.
- In case of eye contact : Do not rub eye.
Hold eyelids apart.
Begin to rinse with water as soon as possible and rinse cautiously for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Get immediate medical advice/attention, if necessary.
- If swallowed : Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious.
Never give anything by mouth to an unconscious person.
Remove person to fresh air and keep comfortable for breathing.
Keep person warm with a blanket etc.
Get immediate medical advice/ attention.
If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Administer oxygen if breathing is difficult.
If breathing has stopped, apply artificial respiration.
Do not use mouth-to-mouth method.
Effect of exposure to substance may be delayed.
Medical observation is indicated.
- Protection of first-aiders : During rescue operations, wear protective equipment (see "8. Exposure control/personal protection").

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Fog
Water
Dry sand
- Unsuitable extinguishing media : Straight streams
- Specific hazards during firefighting : Explosion may occur due to concentrate by fire heat.
May decompose explosively when heated or involved in a fire.

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	<p>The heat from external fire may cause the product to decompose explosively.</p> <p>A cloud of uncombusted dust of this product formed in an explosion or fire may cause a secondary explosion.</p> <p>Cool containers with an appropriate cooling means, paying heed to incompatible hazardous substances (see "10. Stability and reactivity").</p> <p>The combustion gas and/or the decomposition gas may contain an irritating, corrosive and/or toxic gas.</p> <p>Harmful gases (see "10. Stability and reactivity") may be released by fire and may cause dizziness, suffocation, or other health hazards.</p> <p>Harmful substances in the water runoff from fire control may have adverse environmental and biological effects.</p> <p>May ignite again, if it is not cooled enough in fire fighting.</p>
Specific extinguishing methods	<p>Withdraw from the fire area if overheated containers may explode during fire fighting.</p> <p>Take appropriate evacuation distance, which not course explosion damage in all directions.</p> <p>Do not extinguish by approaching fire if it spreads out because explosion may occur.</p> <p>Do not move the vehicle carrying the load when fire reaches cargo.</p> <p>Fight fire from safe distance, if overheated containers may explode.</p> <p>Keep upwind.</p> <p>Fight fire from a protected location.</p> <p>Keep unauthorized personnel away.</p> <p>In case of large fire and large quantities: Evacuate area. Fight fire remotely enough.</p> <p>Protecting other nearby combustibles before they catch fire: Remove cylinders/containers or sprinkle them with water, etc., if this can be done safely.</p> <p>Protecting the product from external fire: Remove product-containing containers to a safe place, or cool the nearby equipment with water, etc., if this can be done safely.</p> <p>Do not subject containers to friction or shock.</p> <p>Dike fire water for disposal considering the environment; do not spread the material.</p>
Special protective equipment for firefighters	<p>Wear regional, national, and local standards approved fire fighting turnout gear and positive pressure self-contained breathing apparatus (SCBA).</p> <p>Wear flame-resistant or fireproof clothes, with face shield, helmet and gloves.</p>

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	<p>Personal precautions</p> <p>If fire does not break out, wear highly sealable non-permeable protective clothing.</p> <p>Wear appropriate protective equipment (see "8. Exposure control/personal protection") to avoid contact of dust with the eyes and skin and inhalation of dust.</p> <p>Emergency procedures</p> <p>Spray water to prevent scattering, if appropriate.</p>
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- Evacuate people who are downwind, and keep upwind while working.
Keep unauthorized personnel away.
If the surrounding area may be affected (including health impairment), warn the nearby residents.
Remove immediately all ignition sources nearby.
Form large safety zone.
Prevention of secondary hazards
ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges.
Prevent dust cloud or/and dust accumulation.
Prepare appropriate extinguishing agent. (See "5. Fire-fighting measures")
Prevent discharge into drain ditches, drain sewers, basements or closed areas.
Cover powder spill with plastic sheet or tarp to minimize spreading and to keep powder dry.
- Environmental precautions : Do not release the product to the environment.
Form a dike to prevent the leakage from flowing into waterways (rivers, sewers, etc.) and affecting the environment.
Take appropriate measures, such as warning nearby residents of the leak, because its smell or irritating odor is intense.
- Methods and materials for containment and cleaning up : Keep wetted with water to prevent flying dust.
Collect the leakage promptly.
Collect the leakage in a sealed container as far as possible.
Wet the spills, if appropriate, to prevent scattering.
Dike the leakage promptly to prevent scattering into waters (river, sewer, and so on), then wet with water and collect later disposal.
Sweep and collect the leakage in a sealed container and move it to a safe place.
Collect whole spill.
ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges.
Consult with an expert when collecting the leakage.
Use dust explosion-proof type electric equipment and lighting.
Electrically conductive containers must be grounded.
Collect fine substance by dust explosion-proof cleaner to prevent scatter.
Collect the residue carefully and transfer it to a safe place.
Collect leakage after taking measures for safe handling (see "7. Handling and storage").
See "13. Disposal considerations".

7. HANDLING AND STORAGE

- Technical measures : Eliminate all sources of ignition.
Prevent dust cloud or/and dust accumulation.
Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor.
Do not use low conductive material to equipments and containers including plastic lining, bags and filters.

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Use explosion-proof electrical/ ventilating/ lighting equipment. Inerting by nitrogen gas, etc., and explosion pressure venting of confined spaces are recommended as dust explosion precautions.

If above mentioned precautions are impossible, consult an expert of a specialized company.

In case of open system, prevent from insulator lining or coating of piping, duct, hopper, and apply grounding/earthing of all conductive process units.

Handle the product in closed system or use dust collector, to prevent exposure in a dusty atmosphere.

Do not eat, drink or smoke when using this product.

Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").

Do not breathe dust.

Do not get in eyes or mouth or on skin.

Avoid contact with eyes, skin, and clothing.

Do not bring contaminated protective equipment into the rest area.

Wear an appropriate protective equipment to avoid contact to skin, mucosa membrane or eyes.

Use disposable protective clothing, if possible.

Contaminated work clothing should be disposed or be cleaned and reused, with appropriate way.

Dispose of contaminated protective clothing safely.

- Local/Total ventilation : Ventilate by a system of local and/or general exhaust.
- Advice on safe handling : Keep away from incompatible materials (see "10. Stability and reactivity").
Avoid inhaling.
- Conditions for safe storage : Keep in a fire-proof designed place.
Store under controlled lighting and appropriate ventilation.
Take precautionary measures against static discharges.
Store locked up.
Keep away from food, drink and animal feedingstuffs.
Maintain air gap between stacks or pallets.
Keep away from direct sunlight.
Store in cool place.
Store in a well-ventilated place.
Keep container tightly closed.
Store in an area without drain or sewer access.
See "10. Stability and reactivity"
Store in a dry place. Store in a closed container.
- Packaging material : No information available.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Product	Type	Exposure Limit values	Regulation Sources
Particles (insoluble or poorly soluble) Not Otherwise Specified - Inhalable particles.	TWA	10 mg/m ³	US. ACGIH Threshold Limit Values
Particles (insoluble or poorly soluble) Not Otherwise Specified - Respirable particles.	TWA	3 mg/m ³	US. ACGIH Threshold Limit Values

Engineering measures : Use a local and/or general ventilation system with collecting apparatus, and a closed equipment or apparatus.
Provide facilities to wash hands, eyes, and the body at the working place.

Personal protective equipment

Respiratory protection : Be sure to use breathing protective equipment only chosen according to specific regulatory requirements after a risk assessment.
When an emergency or leak occurs, wear air respirator or positive pressure self-contained breathing apparatus (SCBA).

Hand protection : Be sure to use hand protective equipment only chosen according to specific regulatory requirements after a risk assessment.
impervious gloves

Eye protection : Be sure to use eye protective equipment only chosen according to specific regulatory requirements after a risk assessment.
chemical safety goggles

Skin and body protection : Be sure to use personal protective equipment (PPE) only chosen according to specific regulatory requirements after a risk assessment.
Protective clothing (long-sleeved work clothes)

Hygiene measures : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
PREVENT GENERATION OF DUST.
Do not inhale this product.
Avoid all exposure to a person.
Do not get in eyes or mouth or on skin.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should be disposed or be cleaned and reused, with appropriate way.
When disposing of contaminated protective equipment and work clothes, take appropriate measures to prevent contamination of the surrounding environment.
Wash face, hands and any exposed skin thoroughly after handling.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Powder
Colour	: Light yellow
Odour	: Characteristic odour
pH	: 5 – 7 (1% aqueous suspension)
Melting point/freezing point	: 171.6 - 172.8 °C Melting point
Initial boiling point and boiling range	: Not detected due to decomposition
Flash point	: Non-combustible
Evaporation rate	: no data available
Flammability	: no data available
Burning rate	: 0.67 mm/s Method: IMO
Upper explosion limit / upper flammability limit	: no data available
Lower explosion limit / Lower flammability limit	: 140 g/m ³
Vapour pressure	: 1.3 x 10 ⁻¹⁰ Pa (25 °C)
Relative vapour density	: no data available
Relative density	: no data available
Density	: no data available
Bulk density	: 0.8482 g/mL (23.6 - 23.7 °C)
Solubility(ies)	
Water solubility	: 0.291 g/l (19.5 - 20.5 °C)
Solubility in other solvents	: 10 - 14 g/l (19 - 21 °C) Solvent: Acetone < 10 g/l (19 - 21 °C) Solvent: Isopropanol
Partition coefficient: n-octanol/water	: log Pow: 0.889 (20.3 °C)
Auto-ignition temperature	: no data available

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Decomposition temperature : 190 °C
Method: DSC(sealed cell)

Viscosity
Viscosity, kinematic : no data available

Particle size : no data available

10. STABILITY AND REACTIVITY

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions : May form explosive dust cloud.
Decomposition by heat, chemical reaction, subjecting to friction or shock may cause sudden rise of temperature and pressure.
Heating may decompose the product, leading to rupture of containers.
Heating may decompose the product, leading to fire and/or explosion.
Strong bases
Open flame
Mechanical spark
Electrical spark
Welding spark
Hot surface(s)
Heating
Friction heat
Electrostatic discharge
: May cause a fire and/or explosion.
Heating
Mechanical shock
Oxidizing agents
Strong acids
: May cause a fire, explosion, and generation of a toxic gas.
Hypochlorites
: May generate unstable substances that readily break down under thermal and/or mechanical shock, etc.

Conditions to avoid : Open flame
Mechanical spark
Electrical spark
Welding spark
Heating
Hot surface(s)
Friction heat
Electrostatic discharge
Mechanical shock
etc.

Incompatible materials : Strong acids
Strong bases
Hypochlorites
Oxidizing agents

Hazardous decomposition products : Carbon monoxide
Carbon dioxide

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Hydrocarbons
Soot
Nitrogen Oxides
Ammonia
Sulfur oxides.
Hydrogen chloride
Chlorine compounds

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Oral
Inhalation
Dermal
Eyes

Acute toxicity

Acute oral toxicity : LD50(Rat): > 2,000 mg/kg
Target Organs: Nervous system

Acute inhalation toxicity : LC50(Rat): > 2.250 mg/l
Exposure time: 4 h
Target Organs: No specific target organs noted.
Remarks: Dusts, mists and fumes

Acute dermal toxicity : LD50(Rat): > 2,000 mg/kg
Target Organs: No specific target organs noted.

Skin corrosion/irritation

Species : Rabbit
Result : Not irritating

Serious eye damage/eye irritation

Species : Rabbit
Result : Minimally irritating

Respiratory or skin sensitisation

Test Type : Skin sensitisation
Species : Guinea Pig
Method : Maximization test
Result : non-sensitizer

Test Type : Skin sensitisation
Species : Mouse
Method : LLNA test
Result : non-sensitizer

Germ cell mutagenicity

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Result: negative

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	Test Type: Gene mutation test Test system: Chinese hamster cell Result: negative
	Test Type: Chromosome aberration test Test system: Chinese hamster cell Result: positive
	Test Type: Ames test Test system: S. typhimurium and E. coli Result: negative
Genotoxicity in vivo	Test Type: unscheduled DNA synthesis assay Species: Rat Cell type: Liver Application Route: Oral Result: negative
	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative
	Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal Result: negative
Carcinogenicity	
Species	: Rat
Application Route	: Diet
Method	: Carcinogenicity study
Result	: non-carcinogenic
Species	: Mouse
Application Route	: Diet
Method	: Carcinogenicity study
Result	: non-carcinogenic
Reproductive toxicity	
Effects on fertility	: Species: Rat Application Route: Diet Method: Two-generation reproductive toxicity study Result: no effect on reproduction
Effects on foetal development	: Species: Rat Application Route: Oral Method: Teratology study Result: non-teratogenic
	Species: Rabbit Application Route: Oral Method: Teratology study Result: non-teratogenic

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STOT - single exposure

See Acute toxicity ("11. Toxicological information")

STOT - repeated exposure

Species : Rat
Application Route : Diet
Method : 90-day repeated dose toxicity study
Target Organs : No specific target organs noted.

Species : Rat
Application Route : Diet
Method : 2-year chronic toxicity study
Target Organs : No specific target organs noted.

Species : Dog
Application Route : Diet
Method : 90-day repeated dose toxicity study
Target Organs : Blood

Aspiration toxicity

no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish : LC50 (Rainbow Trout): > 100 mg/l
Exposure time: 96 h

LC50 (Bluegill Sunfish): > 117 mg/l
Exposure time: 96 h

LC50 (Common Carp): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 40 mg/l
Exposure time: 48 h

LC50 (Mysid): 0.053 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (Green algae): > 270 mg/l
Exposure time: 0 - 72 h

ErC50 (Blue-green algae): > 100 mg/l
Exposure time: 0 - 72 h

ErC50 (Marine Diatom): 33.2 mg/l
Exposure time: 0 - 72 h

ErC50 (Diatoms): 67.2 mg/l
Exposure time: 0 - 72 h

Toxicity to fish (Chronic toxicity) : NOEC: 20 mg/l
Species: Fathead Minnow

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.0097 mg/l
Species: Mysid

NOEC: 0.12 mg/l
Species: Daphnia magna

Toxicity to other organisms : Has adverse effects on silkworms.
Has adverse effects on honey bees.
Has adverse effects on bumble bees.

Persistence and degradability

Biodegradability : Remarks: no data available

Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Mobility in soil

no data available

Other adverse effects

Ozone-Depletion Potential : Regulation: UNEP - Handbook for the Montreal Protocol on Substances that Deplete the Ozone Layer
Remarks: not listed to the Montreal Protocol

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose of contents/container appropriately in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN3077
Proper shipping name : Environmentally Hazardous Substance, Solid, n.o.s. (clothianidin)
Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN3077
Proper shipping name : Environmentally Hazardous Substance, Solid, n.o.s. (clothianidin)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956

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IMDG-Code

UN number	: UN3077
Proper shipping name	: Environmentally Hazardous Substance, Solid, n.o.s. (clothianidin)
Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: Yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

Remarks : Make sure no damage, corrosion, leaks, and so on on the container(s) before transportation.
Load not to fall, drop, damage the product, and make sure to take measures to secure the loaded products.
Equip in automobile or ship for transportation with protective equipment (gloves, eyeglasses, mask, etc), and fire extinguisher, tools necessary for emergency.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

Please follow local regulations.

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

In compliance with ISO 11014:2009 (UN GHS 6th Edition)

