

Pyriproxyfen 10EC

Revision Date: 2022/10/28

Spec ID: 900000016954

Date of last issue: 2022/03/24

Date of first issue: 2013/07/13

1. PRODUCT AND COMPANY IDENTIFICATIONProduct name : **Pyriproxyfen 10EC**

Formulation ID : SF05

Manufacturer or supplier's details

Company : SUMITOMO CHEMICAL Co., Ltd.

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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)**Recommended use of the chemical and restrictions on use**Use : Insecticide
Plant protection products**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 : Category 4

Flammable solids : Not applicable

Self-reactive substances and mixtures : Classification not possible

Pyrophoric liquids : Not applicable

Pyrophoric solids : Not applicable

Self-heating substances and mixtures : Classification not possible

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Substances and mixtures, which in contact with water, emit flammable gases	: Not applicable
Oxidizing liquids	: Classification not possible
Oxidizing solids	: Not applicable
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	: Category 2
Serious eye damage/eye irritation	: Category 2B
Respiratory sensitisation	: Classification not possible
Skin sensitisation	: Not classified
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Category 2
Reproductive toxicity	: Classification not possible
Specific target organ toxicity - single exposure	: Not classified
Specific target organ toxicity - repeated exposure	: Category 1 (Respiratory system, Eyes, Central nervous system)
Specific target organ toxicity - repeated exposure	: Category 2 (Lung)
Aspiration hazard	: Category 1
Short-term (acute) aquatic hazard	: Category 1
Long-term (chronic) aquatic	: Category 1

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hazard

Hazardous to the ozone layer : Classification not possible

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H227 Combustible liquid.
H303 May be harmful if swallowed.
H315+H320 Causes skin and eye irritation.
H351 Suspected of causing cancer.
H372 Causes damage to Respiratory system, Eyes, Central nervous system through prolonged or repeated exposure.
H373 May cause damage to Lung through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P202 Do not handle until all safety precautions have been read and understood.
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.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response:
P370+P378 In case of fire: Use appropriate fire-extinguisher to extinguish "See section 5 in SDS".
P391 Collect spillage.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338+P337+P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get medical advice/attention if eye irritation persists.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301+P331+P312 IF SWALLOWED: Do NOT induce vomiting. Call a POISON CENTER/doctor if victim feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P308+P313 IF exposed or concerned: Get medical advice/attention.

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P362+P364 Take off contaminated clothing and wash it before reuse.

Storage:

P403+P405 Store locked up in a well-ventilated place.

Disposal:

P501 Dispose of contents/container appropriately in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical Name	CAS No.	Concentration(%)
4-phenoxyphenyl (<i>RS</i>)-2-(2-pyridyloxy)propyl ether (ISO common name: pyriproxyfen)	95737-68-1	10 w/v, 11 w/w
Solvent etc.	Trade Secret	balance

Hazardous components

Chemical name	CAS No.	Concentration (%)
Naphthalene	91-20-3	<= 5.0

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.
Pay attention to the risk of combustion by fire or other sources of ignition.
Wash contaminated clothing before reuse.
- 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

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- rinsing.
Get immediate medical advice/attention.
- If swallowed : Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious.
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.
Never give anything by mouth to an unconscious person.
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").
Be aware that this product contains carcinogen(s).

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry chemical powder
Regular foam
Carbon dioxide
Dry sand
- Unsuitable extinguishing media : Straight streams
- Specific hazards during firefighting : Cool containers with an appropriate cooling means, paying heed to incompatible hazardous substances (see "10. Stability and reactivity").
The combustion gas and/or the decomposition gas may contain an irritating, corrosive and/or toxic gas.
Harmful gases (see "10. Stability and reactivity") may be released by fire and may cause dizziness, suffocation, or other health hazards.
Harmful substances in the water runoff from fire control may have adverse environmental and biological effects.
- Specific extinguishing methods : Stop leak if possible without any risk.
If the fire cannot be stopped, let it burn itself out while cooling with water spray to prevent the fire from spreading.
Keep upwind.
Fight fire from a protected location.
Keep unauthorized personnel away.
In case of large fire and large quantities: Evacuate area. Fight fire remotely enough.
Protecting other nearby combustibles before they catch fire: Remove containers or sprinkle them with water, etc., if this can be done safely.
Protecting the product from external fire: Remove product-containing containers to a safe place, or cool the nearby

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equipment with water, etc., if this can be done safely.
Confining and smothering fire is preferable.
Dike fire water for disposal considering the environment; do not spread the material.

Special protective equipment for firefighters : Wear regional, national, and local standards approved fire fighting turnout gear and positive pressure self-contained breathing apparatus (SCBA).
Wear flame-resistant or fireproof clothes, with face shield, helmet and gloves.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Personal precautions
Wear appropriate protective equipment (see "8. Exposure control/personal protection") to avoid contact of droplets with the eyes or skin, or inhalation of mist or vapors.
Emergency procedures
Evacuate people who are downwind, and keep upwind while working.
Keep unauthorized personnel away.
Lock navigation on waterways until the safety have been confirmed.
If the surrounding area may be affected (including health impairment), warn the nearby residents.
Remove immediately all ignition sources nearby.
Block access to any area including ditches and water channels where hazardous gas may collect.
Form large safety zone.
In case of a large spill, use foam to reduce vapors.
Water spray may reduce vapor for large spill.
Prevention of secondary hazards
ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges.
Prepare appropriate extinguishing agent. (See "5. Fire-fighting measures")
Prevent discharge into drain ditches, drain sewers, basements or closed areas.

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 : Collect the leakage promptly.
Stop leak if possible without any risk.
Collect the leakage in a sealed container as far as possible.
Dike far ahead of liquid spill for later disposal.
Absorb remaining liquid in dry earth, sand or other non-combustible material and remove to safe place.
Collect the entire amount by repeatedly sopping it up with a suitable absorbent material.
Use explosion-proof electrical/ventilating/lighting/equipment,

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when this product may ignite at high temperatures.
ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges.
Consult with an expert when collecting the leakage.
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.
Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor, when this product may ignite at high temperatures.
Use explosion-proof electrical/ventilating/lighting/equipment, when this product may ignite at high temperatures.
The product generates heavier gas and vapors than air. Do not release them into lower places including dips, channels, and drainage ditches to prevent ignition, health hazard and/or environmental hazard in the distance.
Prevent generation of mist.
Keep upwind while working, being ready for exposure to the leakage.
Keep away from ignition sources such as open flame and hot surface, in case of mist generation by spraying etc.
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 mist or vapours.
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.
Ventilate along the floor.
- 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.
Store locked up.
Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor, when this product

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may ignite at high temperatures.
Ground/bond container and receiving equipment, when this product may ignite at high temperatures.
Keep away from food, drink and animal feedingstuffs.
Keep away from direct sunlight.
Store in a well-ventilated place.
Keep container tightly closed.
Store in an area without drain or sewer access.
See "10. Stability and reactivity"

Packaging material : No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Naphthalene	91-20-3	TWA	10 ppm	ACGIH

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

Personal protective equipment

Respiratory protection : Be sure to use appropriate breathing protective equipment.
When an emergency or leak occurs, wear air respirator or positive pressure self-contained breathing apparatus (SCBA).
half mask / full face mask with filter respirator for toxic gases

Hand protection : Be sure to use appropriate hand protective equipment.
impervious gloves

Eye protection : Be sure to use appropriate eye protective equipment.
chemical safety goggles or glasses and full face shield

Skin and body protection : Be sure to use appropriate personal protective equipment.
Suitable impervious protective clothing, including protective footwear, gloves, lab coat, apron or coveralls.

Hygiene measures : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use only outdoors or in a well-ventilated area, unless it can be handled in closed system.
Do not inhale this product.
Avoid all exposure to a person.
Avoid contact with skin and eyes.
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

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contamination of the surrounding environment.
Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear liquid
Colour	: Pale yellow
Odour	: Aromatic solvent-based characteristic odour
pH	: 5.7 (10% v/v emulsion)
Melting point/freezing point	: no data available
Boiling point, initial boiling point and boiling range	: no data available
Flash point	: 67 °C Method: Seta closed cup
Evaporation rate	: no data available
Flammability	: no data available
Upper explosion limit / upper flammability limit	: no data available
Lower explosion limit / Lower flammability limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 0.92 (19.5°C)
Density	: no data available
Solubility(ies)	
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity	
Viscosity, dynamic	: 18.5 mPa·s
Viscosity, kinematic	: no data available

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Particle size : no data available

10. STABILITY AND REACTIVITY

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions : Mist may form an explosive mixture with air regardless of temperature.
bases
Open flame
Mechanical spark
Electrical spark
Welding spark
Hot surface(s)
heating
Friction heat
Electrostatic discharge
: may cause a fire and/or explosion
Oxidizing agents
acids
: may cause a fire, explosion, and generation of a toxic gas

Conditions to avoid : Open flame
Mechanical spark
Electrical spark
Welding spark
heating
Hot surface(s)
Electrostatic discharge

Incompatible materials : acids
bases
Oxidizing agents

Hazardous decomposition products : Carbon monoxide
Carbon dioxide
Hydrocarbons
soot
Nitrogen Oxides
Ammonia
Sulfur oxides.
May generate fine particles containing inorganic components.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Oral
Inhalation
Dermal
Eyes

Acute toxicity**Product:**

Acute oral toxicity : LD₅₀(Rat): 3,773 mg/kg
Target Organs: No specific target organs noted.

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Acute inhalation toxicity : LC₅₀(Rat): > 3.1 mg/L (maximum attainable concentration)
Exposure time: 4 h
Target Organs: No specific target organs noted.
Remarks: Dusts, mists and fumes

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

Skin corrosion/irritation**Product:**

Species : Rabbit
Result : Moderately irritating

Serious eye damage/eye irritation**Product:**

Species : Rabbit
Result : Mild to moderately irritating

Respiratory or skin sensitisation**Product:**

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

Germ cell mutagenicity**Product:**

Genotoxicity in vitro : Remarks: no data available
Genotoxicity in vivo : Remarks: no data available

Components:**pyriproxyfen:**

Genotoxicity in vitro : Test Type: Ames test
Test system: *S. typhimurium* and *E. coli*
Result: negative

Test Type: chromosome aberration test
Test system: Chinese hamster cell
Result: negative

Test Type: DNA repair assay
Test system: *Bacillus subtilis*
Result: negative

Test Type: gene mutation test
Test system: Chinese hamster cell
Result: negative

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Test Type: unscheduled DNA synthesis assay

Test system: somatic cell

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Cell type: Bone marrow
Application Route: Oral
Result: negative

Carcinogenicity**Product:**

Remarks : no data available

Components:**Naphthalene:**

IARC: 2B

ACGIH: A3

NTP: R

EPA: CBD

EU: 2

Japan Society for Occupational Health: 2B

Species : Rat
Application Route : Inhalation
Method : carcinogenicity study
Result : carcinogenic
Target Organs : Respiratory organs

Species : Mouse
Application Route : Inhalation
Method : carcinogenicity study
Result : carcinogenic
Target Organs : Respiratory organs

pyriproxyfen:

Species : Rat
Application Route : diet
Method : carcinogenicity study
Result : non-carcinogenic

Species : Mouse
Application Route : diet
Method : carcinogenicity study
Result : non-carcinogenic

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Reproductive toxicity**Product:**

Effects on fertility : Remarks: no data available

Effects on foetal development : Remarks: no data available

Components:**pyriproxyfen:**Effects on fertility : Species: Rat
Application Route: diet
Method: two-generation reproductive toxicity study
Result: no effect on fertilitySpecies: Rat
Application Route: Oral
Method: Study of Fertility and Early Embryonic Development to Implantation
Result: no effect on fertilityEffects on foetal development : Species: Rat
Application Route: Oral
Method: teratology study
Result: non-teratogenicSpecies: Rabbit
Application Route: Oral
Method: teratology study
Result: non-teratogenic**STOT - single exposure**

See Acute toxicity ("11. Toxicological information")

STOT - repeated exposure**Product:**

Remarks : no data available

Components:**Naphthalene:**Species : Rat
Application Route : Inhalation
Method : 90-day repeated dose toxicity study
Target Organs : Respiratory systemSpecies : Human
Application Route : Inhalation
Method : epidemiological information
Target Organs : Eyes

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Species : Human
Application Route : Dermal
Method : epidemiological information
Target Organs : Eyes

pyriproxyfen:

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

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

Species : Rat
Application Route : Inhalation
Method : 28-day repeated dose toxicity study
Target Organs : No specific target organs noted.

Species : Rat
Application Route : Dermal
Method : 21-day repeated dose toxicity study
Target Organs : No specific target organs noted.

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

Solvent 1:

Species : Human
Target Organs : Central nervous system, Respiratory system

Solvent 2:

Species : Rat
Application Route : Inhalation
Method : 90-day repeated dose toxicity study
Target Organs : Central nervous system, Lung

Aspiration toxicity**Product:**

no data available

Components:**Solvent:**

potentially cause a chemical pneumonia

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12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other : Remarks: no data available
aquatic invertebratesToxicity to algae/aquatic : Remarks: no data available
plantsToxicity to fish (Chronic : Remarks: no data available
toxicity)Toxicity to daphnia and other : Remarks: no data available
aquatic invertebrates
(Chronic toxicity)**Components:****pyriproxyfen:**Toxicity to fish : LC₅₀ (Common Carp): 0.45 mg/l
Exposure time: 96 hToxicity to daphnia and other : EC₅₀ (*Daphnia magna*): 0.075 mg/l
aquatic invertebrates Exposure time: 48 hToxicity to algae/aquatic : ErC₅₀ (Green algae): 0.11 mg/l
plants Exposure time: 24 - 72 hNOECr (Green algae): 0.038 mg/l
Exposure time: 24 - 72 hToxicity to daphnia and other : NOEC: 0.015 µg/l
aquatic invertebrates Species: *Daphnia magna*
(Chronic toxicity)Toxicity to the other : Adverse effects to silkworm for long term.
organism**Persistence and degradability**

Biodegradability : Remarks: no data available

Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Mobility in soil

no data available

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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 : UN3082
Proper shipping name : Environmentally Hazardous Substance, Liquid, n.o.s. (pyriproxyfen mixture)
Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN3082
Proper shipping name : Environmentally Hazardous Substance, Liquid, n.o.s. (pyriproxyfen mixture)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964

IMDG-Code

UN number : UN3082
Proper shipping name : Environmentally Hazardous Substance, Liquid, n.o.s. (pyriproxyfen mixture)
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.

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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 7th Edition)