

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 11-Aug-2014 Revision Date 18-Oct-2023 Revision Number 10

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Description: <u>Thiourea</u>

Cat No. : T/1150/50, T/1150/53, T/1150/68, T/1150NC/50, T/11

 Synonyms
 Thiocarbamide

 Index No
 612-082-00-0

 CAS No
 62-56-6

 EC No
 200-543-5

 Molecular Formula
 C H4 N2 S

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

#### 1.3. Details of the supplier of the safety data sheet

Company

UK entity/business name

Fisher Scientific UK

Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, United Kingdom

EU entity/business name

Thermo Fisher Scientific Janssen Pharmaceuticalaan 3a

2440 Caal Dalaium

2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

Tel: 01509 231166

Chemtrec US: (800) 424-9300 Chemtrec EU: 001-703-527-3887

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

## CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

## **Physical hazards**

Based on available data, the classification criteria are not met

Thiourea Revision Date 18-Oct-2023

**Health hazards** 

Acute oral toxicityCategory 4 (H302)CarcinogenicityCategory 2 (H351)Reproductive ToxicityCategory 2 (H361d)

**Environmental hazards** 

Chronic aquatic toxicity Category 2 (H411)

Full text of Hazard Statements: see section 16

#### 2.2. Label elements



## Signal Word

Warning

#### **Hazard Statements**

H302 - Harmful if swallowed

H351 - Suspected of causing cancer

H361d - Suspected of damaging the unborn child

H411 - Toxic to aquatic life with long lasting effects

May form combustible dust concentrations in air

## **Precautionary Statements**

P201 - Obtain special instructions before use

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

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor/physician

P273 - Avoid release to the environment

#### 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

May form explosible dust-air mixture if dispersed

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1. Substances

| Component | CAS No  | EC No             | Weight % | CLP Classification - According to<br>GB-CLP Regulations UK SI 2019/720 and<br>UK SI 2020/1567 |
|-----------|---------|-------------------|----------|---|
| Thiourea  | 62-56-6 | EEC No. 200-543-5 | >95      | Acute Tox. 4 (H302)<br>Carc. 2 (H351)   |

Thiourea Revision Date 18-Oct-2023

|  |  | Repr. 2 (H361d)          |
|--|--|--------------------------|
|  |  | Aquatic Chronic 2 (H411) |

Full text of Hazard Statements: see section 16

## **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if

symptoms occur.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the

substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If

not breathing, give artificial respiration.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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

No information available.

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

Notes to Physician Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media

## **Suitable Extinguishing Media**

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

#### Extinguishing media which must not be used for safety reasons

No information available.

## 5.2. Special hazards arising from the substance or mixture

Fine dust dispersed in air may ignite. Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

## **Hazardous Combustion Products**

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides.

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Thiourea Revision Date 18-Oct-2023

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.

## 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

## 6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

## 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from direct sunlight.

Technical Rules for Hazardous Substances (TRGS) 510 Class 11 Storage Class (LGK) (Germany)

#### 7.3. Specific end use(s)

Use in laboratories

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

#### **Exposure limits**

List source(s):

#### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Thiourea** Revision Date 18-Oct-2023

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component                   | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|-----------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Thiourea<br>62-56-6 ( >95 ) |                              |                                 |                                | DNEL = 3.4mg/kg<br>bw/day         |

| Component                   | Acute effects loc (Inhalation) | al Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|-----------------------------|--------------------------------|--|------------------------------------|---------------------------------------|
| Thiourea<br>62-56-6 ( >95 ) |                                |  |                                    | DNEL = 1mg/m <sup>3</sup>             |

## **Predicted No Effect Concentration (PNEC)**

See values below.

| ſ | Component     | Fresh water     | Fresh water | Water Intermittent | Microorganisms in | Soil (Agriculture) |
|---|---------------|-----------------|-------------|--------------------|-------------------|--------------------|
|   |               |                 | sediment    |                    | sewage treatment  |                    |
|   | Thiourea      | PNEC = 0.01mg/L | PNEC =      | PNEC = 0.038mg/L   | PNEC = 0.38mg/L   | PNEC =             |
|   | 62-56-6 (>95) | _               | 0.0725mg/kg | _                  | _                 | 2.725mg/kg soil dw |
|   |               |                 | sediment dw |                    |                   |                    |

| Component       | Marine water     | Marine water sediment | Marine water intermittent | Food chain | Air |
|-----------------|------------------|-----------------------|---------------------------|------------|-----|
|                 | PNEC = 0.001mg/L |                       |                           |            |     |
| 62-56-6 ( >95 ) |                  | 0.00725mg/kg          |                           |            |     |
|                 |                  | sediment dw           |                           |            |     |

## 8.2. Exposure controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

## Personal protective equipment

Goggles (European standard - EN 166) **Eye Protection** 

**Hand Protection** Protective gloves

| Glove material<br>Natural rubber<br>Nitrile rubber<br>Neoprene | Breakthrough time<br>See manufacturers<br>recommendations | Glove thickness | EU standard<br>EN 374 | Glove comments<br>(minimum requirement) |
|--|---|-----------------|-----------------------|---|
| PVC  |   |                 |                       |   |

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

**Thiourea** Revision Date 18-Oct-2023

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits Large scale/emergency use

are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure Small scale/Laboratory use

limits are exceeded or if irritation or other symptoms are experienced.

Solid

Solid

Recommended half mask:- Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** Prevent product from entering drains. Do not allow material to contaminate ground water

system.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

**Physical State** Powder Solid

**Appearance** White Odor Odorless

No data available **Odor Threshold** 

171 - 175 °C / 339.8 - 347 °F **Melting Point/Range** 

**Softening Point** No data available No information available **Boiling Point/Range** 

Flammability (liquid) Not applicable Solid

Flammability (solid,gas) No information available **Explosion Limits** No data available

No information available Flash Point Method - No information available

**Autoignition Temperature** 440 °C / 824 °F **Decomposition Temperature** No data available Hq

No information available Not applicable **Viscosity** 

Water Solubility 136 g/L (20°C)

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Thiourea -0.92

**Vapor Pressure** 2.5 mmHg @ 25 °C

**Density / Specific Gravity** 1.405

**Bulk Density** No data available **Vapor Density** Not applicable

Particle characteristics No data available

9.2. Other information

Molecular Formula C H4 N2 S **Molecular Weight** 76.12

**Evaporation Rate** Not applicable - Solid

## **SECTION 10: STABILITY AND REACTIVITY**

Thiourea Revision Date 18-Oct-2023

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** No information available.

10.4. Conditions to avoid

Avoid dust formation. Temperatures above 140°C. Incompatible products.

10.5. Incompatible materials

Acids. Strong oxidizing agents. Strong acids. Strong bases. Peroxides.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Product Information**

(a) acute toxicity;

Oral Category 4

**Dermal**Based on available data, the classification criteria are not met
Inhalation
Based on available data, the classification criteria are not met

| Co | omponent | LD50 Oral               | LD50 Dermal             | LC50 Inhalation     |
|----|----------|-------------------------|-------------------------|---------------------|
| -  | Thiourea | LD50 = 1750 mg/kg (Rat) | LD50 > 6810 mg/kg (Rat) | > 0.9 mg/L (Rat)4 h |
|    |          |                         |                         |                     |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

**Respiratory Skin**No data available
No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; Category 2

The table below indicates whether each agency has listed any ingredient as a carcinogen

(g) reproductive toxicity; Category 2

**Developmental Effects** Possible risk of harm to the unborn child.

**Teratogenic effects** have occurred in experimental animals.

(h) STOT-single exposure; No data available

Thiourea Revision Date 18-Oct-2023

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; Not applicable

Solid

Symptoms / effects,both acute and No information available.

delayed

#### 11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any

known or suspected endocrine disruptors.

## **SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity** 

**Ecotoxicity effects**The product contains following substances which are hazardous for the environment. Toxic

to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Component | Freshwater Fish         | Water Flea                    | Freshwater Algae          |
|-----------|-------------------------|-------------------------------|---------------------------|
| Thiourea  | LC50: = 10000 mg/L, 96h | EC50: = 35 mg/L, 48h (Daphnia | EC50: 3.8 - 10 mg/L, 72h  |
|           | (Brachydanio rerio)     | magna)                        | (Desmodesmus subspicatus) |
|           | LC50: > 600 mg/L, 96h   |                               | EC50: = 6.8 mg/L, 96h     |
|           | (Pimephales promelas)   |                               | (Desmodesmus subspicatus) |
|           |                         |                               |                           |

| Component | Microtox                | M-Factor |
|-----------|-------------------------|----------|
| Thiourea  | EC50 = 3100 mg/L 30 min |          |
|           | EC50 = 3395 mg/L 15 min |          |

12.2. Persistence and degradability

**Persistence** Persistence is unlikely.

Degradation in sewage treatment plant

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

| Component log Pow |       | Bioconcentration factor (BCF) |
|-------------------|-------|-------------------------------|
| Thiourea          | -0.92 | No data available             |

12.4. Mobility in soil The product is water soluble, and may spread in water systems . Will likely be mobile in the

environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB

assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent

and very bioaccumulative (vPvB).

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

Revision Date 18-Oct-2023 **Thiourea** 

12.7. Other adverse effects **Persistent Organic Pollutant Ozone Depletion Potential** 

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

## **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from Residues/Unused

**Products** 

Waste is classified as hazardous. Dispose of in accordance with the European Directives

on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point.

**European Waste Catalogue (EWC)** According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Do not flush to sewer. Waste codes should be assigned by the user based on the

application for which the product was used. Do not empty into drains. Do not let this

chemical enter the environment.

## **SECTION 14: TRANSPORT INFORMATION**

IMDG/IMO

14.1. UN number UN3077

14.2. UN proper shipping name Environmentally hazardous substances, solid, n.o.s.

**Technical Shipping Name** Thiourea

14.3. Transport hazard class(es) 9

Ш 14.4. Packing group

ADR

UN3077 14.1. UN number

14.2. UN proper shipping name Environmentally hazardous substances, solid, n.o.s.

**Technical Shipping Name** Thiourea 14.3. Transport hazard class(es) 9

14.4. Packing group Ш

IATA

14.1. UN number

14.2. UN proper shipping name Environmentally hazardous substances, solid, n.o.s.

Thiourea **Technical Shipping Name** 14.3. Transport hazard class(es)

14.4. Packing group Ш

14.5. Environmental hazards Dangerous for the environment

Product is a marine pollutant according to the criteria set by IMDG/IMO

14.6. Special precautions for user No special precautions required.

Not applicable, packaged goods 14.7. Maritime transport in bulk according to IMO instruments

Thiourea Revision Date 18-Oct-2023

## **SECTION 15: REGULATORY INFORMATION**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **International Inventories**

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component | CAS No  | EINECS    | ELINCS | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|-----------|---------|-----------|--------|-----|-------|------|----------|------|------|
| Thiourea  | 62-56-6 | 200-543-5 | -      | -   | X     | Χ    | KE-33805 | Х    | X    |

| Component | CAS No  | TSCA | TSCA Inventory<br>notification -<br>Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|-----------|---------|------|---|-----|------|------|-------|-------|
| Thiourea  | 62-56-6 | Х    | ACTIVE  | X   | -    | X    | Х     | Х     |

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### Authorisation/Restrictions according to EU REACH

| Component | CAS No  | REACH (1907/2006) -<br>Annex XIV - Substances<br>Subject to Authorization | REACH (1907/2006) -<br>Annex XVII - Restrictions<br>on Certain Dangerous | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of |
|-----------|---------|---|--|--|
|           |         | Subject to Authorization  |  | Substances of Very High  |
|           |         |   | Substances   | Concern (SVHC)   |
| Thiourea  | 62-56-6 | -   | Use restricted. See item   | -  |
|           |         |   | 75.  |  |
|           |         |   | (see link for restriction  |  |
|           |         |   | details)   |  |

#### **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

#### Seveso III Directive (2012/18/EC)

| Component | CAS No  | Seveso III Directive (2012/18/EC) -      | Seveso III Directive (2012/18/EC) -     |  |
|-----------|---------|--|---|--|
|           |         | Qualifying Quantities for Major Accident | Qualifying Quantities for Safety Report |  |
|           |         | Notification                             | Requirements                            |  |
| Thiourea  | 62-56-6 | Not applicable                           | Not applicable                          |  |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

#### **National Regulations**

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification See table for values

\_\_\_\_\_

Revision Date 18-Oct-2023 **Thiourea** 

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class                 |
|-----------|---------------------------------------|---|
| Thiourea  | WGK3                                  | Class I: 20 mg/m³ (Massenkonzentration) |

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## **SECTION 16: OTHER INFORMATION**

## Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H351 - Suspected of causing cancer

H361d - Suspected of damaging the unborn child H411 - Toxic to aquatic life with long lasting effects

#### Legend

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic

Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances

Substances List **ENCS** - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

ATE - Acute Toxicity Estimate

**VOC** - (Volatile Organic Compound)

IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Chemical incident response training.

**Training Advice** 

**Creation Date** 11-Aug-2014 18-Oct-2023 **Revision Date Revision Summary** Not applicable.

This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

Thiourea

#### **Disclaimer**

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

## **End of Safety Data Sheet**

FSUT1150

Revision Date 18-Oct-2023