

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

Creation Date 22-Sep-2009

Revision Date 02-Apr-2024

Revision Number 7

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

1.1. Product identifier

| Product Description: Cat No. : Synonyms Index No CAS No EC No Molecular Formula REACH registration number | 2-Ethylhexanoic acid 118520000; 118520011; 118520100; 118525000 2-Ethylcapronic acid 607-230-00-6 149-57-5 205-743-6 C8 H16 O2 01-2119488942-23 |
|--|---|
| 1.2. Relevant identified uses of the | substance or mixture and uses advised against |
| Recommended Use Uses advised against | Laboratory chemicals. No Information available |
| 1.3. Details of the supplier of the sa | fety 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 Geel, Belgium |
| E-mail address | begel.sdsdesk@thermofisher.com |
| 1.4. Emergency telephone number | For information US call: 001-800-227-6701 / Europe call: +32 14 57 52 11 Emergency Number US: 001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No. US: 001-800-424-9300 / Europe: 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

2-Ethylhexanoic acid

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Health hazards

Reproductive Toxicity

Category 1B (H360D)

Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements



Signal Word

Danger

Hazard Statements H360D - May damage the unborn child

Precautionary Statements

P201 - Obtain special instructions before use P280 - Wear protective gloves/protective clothing/eye protection/face protection P308 + P313 - IF exposed or concerned: Get medical advice/attention

Additional EU labelling

Restricted to professional users

2.3. Other hazards

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

Toxicity to Soil Dwelling Organisms 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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|----------------------|----------|-------------------|----------|---|
| 2-Ethylhexanoic acid | 149-57-5 | EEC No. 205-743-6 | <= 100 | Repr. 1B (H360D) |

| REACH registration number | 01-2119488942-23 |
|---------------------------|------------------|
|---------------------------|------------------|

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

| General Advice | If symptoms persist, call a physician. | | |
|--|--|--|--|
| 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. If skin irritation persists, call a physician. | | |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. | | |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. | | |
| 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 | | | |
| | None reasonably foreseeable. | | |

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 (CO 2). Dry chemical. Chemical foam.

Extinguishing media which must not be used for safety reasons No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂).

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required.

6.2. Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

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

Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing.

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.

Technical Rules for Hazardous Substances (TRGS) 510 Class 6.1C 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): **IRE -** 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component | The United Kingdom | European Union | Ireland |
|----------------------|--------------------|----------------|-----------------------------------|
| 2-Ethylhexanoic acid | | | TWA: 4 mg/m ³ 8 hr. |
| | | | STEL: 12 mg/m ³ 15 min |

Biological limit values

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

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

See table for values

| Component Acute effects local | Acute effects | Chronic effects local | Chronic effects |
|-------------------------------|---------------|------------------------------|-----------------|
|-------------------------------|---------------|------------------------------|-----------------|

2-Ethylhexanoic acid

| | (Dermal) | systemic (Dermal) | (Dermal) | systemic (Dermal) |
|----------------------|----------|-------------------|----------|----------------------|
| 2-Ethylhexanoic acid | | | | DNEL = 2mg/kg bw/day |
| 149-57-5(<= 100) | | | | |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|---|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|
| 2-Ethylhexanoic acid 149-57-5 (<= 100) | | | | DNEL = 14mg/m ³ |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water | Water Intermittent | Microorganisms in | Soil (Agriculture) |
|----------------------|------------------|------------------|--------------------|-------------------|--------------------|
| | | sediment | | sewage treatment | |
| 2-Ethylhexanoic acid | PNEC = 0.398mg/L | PNEC = 4.74mg/kg | PNEC = 1mg/L | PNEC = 71.7mg/L | PNEC = |
| 149-57-5(<= 100) | | sediment dw | | | 0.712mg/kg soil dw |

| Component | Marine water | Marine water sediment | Marine water intermittent | Food chain | Air |
|----------------------|--------------|--------------------------|------------------------------|------------|-----|
| 2-Ethylhexanoic acid | PNEC = | PNEC = | | | |
| 149-57-5(<= 100) | 0.0398mg/L | 0.474mg/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

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

| Glove material Natural rubber Butyl rubber Nitrile rubber Neoprene PVC | Breakthrough time See manufacturers recommendations | - | EU standard EN 374 | Glove comments (minimum requirement) |
|---|---|-------------------------|--------------------------|---|
| Skin and body prot | ection Wear ap | propriate protective of | ploves and clothing to p | 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.

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

| | are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143 Acid gases filter Type E Yellow conforming to EN14387 |
|---------------------------------|---|
| Small scale/Laboratory use | Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141 When RPE is used a face piece Fit Test should be conducted |
| Environmental exposure controls | Prevent product from entering drains. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Physical State | Liquid | |
|--------------------------------------|--------------------------|-----------------------------------|
| Appearance | Colorless | |
| Odor | Slight | |
| Odor Threshold | No data available | |
| Melting Point/Range | -59 °C / -74.2 °F | |
| Softening Point | No data available | • |
| Boiling Point/Range | 228 °C / 442.4 °F | @ 760 mmHg |
| Flammability (liquid) | No data available | |
| Flammability (solid,gas) | Not applicable | Liquid |
| Explosion Limits | Lower 0.9 | |
| | Upper 6.7 | |
| Flash Point | 114 °C / 237.2 °F | Method - No information available |
| Autoignition Temperature | 310 °C / 590 °F | |
| Decomposition Temperature | No data available | |
| рН | 3 | 1.4g/L aq sol 20°C |
| Viscosity | 7.7 mPa s at 20 °C | |
| Water Solubility | 2 g/L (20°C) | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/wat | er) | |
| Component | log Pow | |
| 2-Ethylhexanoic acid | 2.7 | |
| Vapor Pressure | 0.04 mbar @ 20 °C | |
| Density / Specific Gravity | 0.906 | |
| Bulk Density | Not applicable | Liquid |
| Vapor Density | 4.98 (Air = 1.0) | (Air = 1.0) |
| Particle characteristics | Not applicable (liquid) | |
| | | |
| 9.2 Other information | | |

9.2. Other information

2-Ethylhexanoic acid

Molecular Formula Molecular Weight C8 H16 O2 144.21

SECTION 10: STABILITY AND REACTIVITY

| 10.1. Reactivity | None known, based on information available |
|--------------------------|--|
| 10.2. Chemical stability | Stable under recommended storage conditions. |

2-Ethylhexanoic acid

10.3. Possibility of hazardous reactions

| Hazardous Polymerization Hazardous Reactions | Hazardous polymerization does not occur. None under normal processing. |
|---|---|
| 10.4. Conditions to avoid | Incompatible products. Heating in air. |
| 10.5. Incompatible materials | Bases. Reducing Agent. Oxidizing agent. |

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

(a) acute toxicity;

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

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------------|-------------------------|----------------------------|-----------------|
| 2-Ethylhexanoic acid | LD50 = 1600 mg/kg (Rat) | LD50 = 1140 mg/kg (Rabbit) | - |
| | | | |

| (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; | No data available |
| | There are no known carcinogenic chemicals in this product |
| | |
| | |
| (g) reproductive toxicity; Reproductive Effects | Category 1B Experiments have shown reproductive toxicity effects on laboratory animals. |
| | |
| Reproductive Effects | Experiments have shown reproductive toxicity effects on laboratory animals. |
| Reproductive Effects (h) STOT-single exposure; | Experiments have shown reproductive toxicity effects on laboratory animals. No data available |

2-Ethylhexanoic acid

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

Do not empty into drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

| Component | Freshwater Fish | Water Flea | Freshwater Algae |
|----------------------|---|---|--|
| 2-Ethylhexanoic acid | LC50: = 70 mg/L, 96h (Pimephales promelas) | EC50: = 85.4 mg/L, 48h (Daphnia magna) | EC50: = 41 mg/L, 96h (Desmodesmus subspicatus) EC50: = 61 mg/L, 72h (Desmodesmus subspicatus) |

| Component | Microtox | M-Factor |
|----------------------|------------------------|----------|
| 2-Ethylhexanoic acid | EC50 = 110 mg/L 17 h | |
| | EC50 = 670 mg/L 30 min | |

12.2. Persistence and degradability

PersistencePersistence is unlikely.Degradation in sewage
treatment plantContains 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) |
|----------------------|---------|-------------------------------|
| 2-Ethylhexanoic acid | 2.7 | No data available |

| <u>12.4. Mobility in soil</u> | 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 |
|--|--|
| <u>12.5. Results of PBT and vPvB</u> assessment | Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB). |
| <u>12.6. Endocrine disrupting</u> properties Endocrine Disruptor Information | This product does not contain any known or suspected endocrine disruptors |
| 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. |

SECTION 14: TRANSPORT INFORMATION

| IMDG/IMO | Not regulated |
|---|----------------------------------|
| <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u> | |
| ADR | Not regulated |
| <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u> | |
| IATA | Not regulated |
| <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u> | |
| 14.5. Environmental hazards | No hazards identified |
| 14.6. Special precautions for user | No special precautions required. |
| 14.7. Maritime transport in bulk according to IMO instruments | Not applicable, packaged goods |

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 |
|----------------------|----------|-----------|--------|-----|-------|------|----------|------|------|
| 2-Ethylhexanoic acid | 149-57-5 | 205-743-6 | - | - | Х | Х | KE-13740 | Х | Х |

2-Ethylhexanoic acid

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|----------------------|----------|------|---|-----|------|------|-------|-------|
| 2-Ethylhexanoic acid | 149-57-5 | Х | ACTIVE | Х | - | Х | 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) - Annex XIV - Substances Subject to Authorization | | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|----------------------|----------|---|--|---|
| 2-Ethylhexanoic acid | 149-57-5 | - | 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 |
| 2-Ethylhexanoic acid | 149-57-5 | 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

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|----------------------|---------------------------------------|--|
| 2-Ethylhexanoic acid | WGK1 | Class I : 20 mg/m ³ (Massenkonzentration) |

| Component | Switzerland - Ordinance on the | Switzerland - Ordinance on | Switzerland - Ordinance of the |
|-----------|--------------------------------|-----------------------------|--------------------------------|
| - | Reduction of Risk from | Incentive Taxes on Volatile | Rotterdam Convention on the |
| | handling of hazardous | Organic Compounds (OVOC) | Prior Informed Consent |

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2-Ethylhexanoic acid

| | substances preparation (SR 814.81) | Procedure |
|---|---|-----------|
| 2-Ethylhexanoic acid 149-57-5 (<= 100) | Prohibited and Restricted Substances | |

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has been conducted by the manufacturer/importer

SECTION 16: OTHER INFORMATION

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

H360D - May damage the unborn child

Legend

| CAS - Chemical Abstracts Service EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances | TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List |
|---|--|
| PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances | ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of 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 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 | ICAO/IATA - International Civil Aviation Organization/International Air |

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

Key literature references and sources for data

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

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

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Ships

Transport Association

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

MARPOL - International Convention for the Prevention of Pollution from

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

| Creation Date | 22-Sep-2009 |
|------------------|-----------------------|
| Revision Date | 02-Apr-2024 |
| Revision Summary | SDS sections updated. |

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

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