

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

Revision Date 17-Mar-2024

Revision Number 3

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

1.1. Product identifier

Product Description: Cat No. : <u>Gold nanoparticles, 400nm, supplied in 0.1mM PBS</u> J67106

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

Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific) Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608

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

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements

None required

EUH210 - Safety data sheet available on request

2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| Component | CAS No | EC No | Weight % | CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|--------------------------------|-----------|-------------------|----------|---|
| Water | 7732-18-5 | 231-791-2 | 99.9804 | - |
| Gold | 7440-57-5 | EEC No. 231-165-9 | 0.01 | - |
| Sodium chloride | 7647-14-5 | 231-598-3 | 0.008 | - |
| Sodium phosphate dibasic | 7558-79-4 | 231-448-7 | 0.0011 | - |
| Dihydrogen potassium phosphate | 7778-77-0 | 231-913-4 | 0.0003 | - |
| Potassium chloride | 7447-40-7 | 231-211-8 | 0.0002 | - |

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 immediately if symptoms occur. | | |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. | | |
| Inhalation | Remove to fresh air. Get medical attention immediately if symptoms occur. | | |
| Self-Protection of the First Aider | No special precautions required. | | |
| 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

Gold nanoparticles, 400nm, supplied in 0.1mM PBS

Notes to Physician

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Not combustible.

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

5.2. Special hazards arising from the substance or mixture

None reasonably foreseeable.

Hazardous Combustion Products

Hydrogen chloride, Oxides of phosphorus, Potassium oxides, Sodium oxides, Gold oxide.

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. See Section 12 for additional Ecological Information. Do not allow material to contaminate ground water system. 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.

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 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 refrigerated.

Gold nanoparticles, 400nm, supplied in 0.1mM PBS

Technical Rules for Hazardous Substances (TRGS) 510Class 12Storage Class (LGK) (Germany)Class 12

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

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

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 (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|---------------------|---------------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| Sodium chloride | | DNEL = 295.52mg/kg | | DNEL = 295.52mg/kg |
| 7647-14-5 (0.008) | | bw/day | | bw/day |
| Potassium chloride | | DNEL = 910mg/kg | | DNEL = 303mg/kg |
| 7447-40-7 (0.0002) | | bw/day | | bw/day |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|---|----------------------------------|--|---------------------------------------|---------------------------------------|
| Sodium chloride 7647-14-5 (0.008) | | DNEL = 2068.62mg/m ³ | | DNEL = 2068.62mg/m ³ |
| Dihydrogen potassium phosphate 7778-77-0 (0.0003) | | | | DNEL = 14.82mg/m ³ |
| Potassium chloride 7447-40-7 (0.0002) | | DNEL = 5320mg/m ³ | | DNEL = 1064mg/m ³ |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water sediment | | Microorganisms in sewage treatment | |
|--|-----------------|----------------------|----------------|---------------------------------------|-----------------------------|
| Sodium chloride 7647-14-5 (0.008) | PNEC = 5mg/L | | | PNEC = 500mg/L | PNEC = 4.86mg/kg soil dw |
| Sodium phosphate dibasic 7558-79-4 (0.0011) | PNEC = 0.05mg/L | | PNEC = 0.5mg/L | PNEC = 50mg/L | |
| Potassium chloride 7447-40-7 (0.0002) | PNEC = 0.1mg/L | | PNEC = 1mg/L | PNEC = 10mg/L | |

| Component | Marine water | Marine water sediment | Marine water intermittent | Food chain | Air |
|--|------------------|--------------------------|------------------------------|------------|-----|
| Sodium phosphate dibasic 7558-79-4 (0.0011) | PNEC = 0.005mg/L | | | | |

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| Potassium chloride | PNEC = 0.1mg/L | | |
|--------------------|----------------|--|--|
| 7447-40-7 (0.0002) | | | |

8.2. Exposure controls

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles) (European standard - EN 166)

Protective gloves

Hand Protection

| Glove material Natural rubber Nitrile rubber Neoprene PVC | Breakthrough time See manufacturers recommendations | Glove thickness - | EU standard EN 374 | Glove comments (minimum requirement) |
|---|---|----------------------|-----------------------|---|
| Skin and body prote | ection Long sle | eved clothing. | | |

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 | No protective equipment is needed under normal use conditions. |
|----------------------------|---|
| 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: Particle filter |
| Small scale/Laboratory use | Maintain adequate ventilation |

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Physical State | Liquid | |
|---------------------------|--------------------------|-----------------------------------|
| Appearance | | |
| Odor | Odorless | |
| Odor Threshold | No data available | |
| Melting Point/Range | No data available | |
| Softening Point | No data available | |
| Boiling Point/Range | No information available | |
| Flammability (liquid) | No data available | |
| Flammability (solid,gas) | Not applicable | Liquid |
| Explosion Limits | No data available | |
| Flash Point | No information available | Method - No information available |
| Autoignition Temperature | No data available | |
| Decomposition Temperature | No data available | |
| pH . | 5 - 7 | |
| Viscosity | No data available | |
| Water Solubility | Miscible | |

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Solubility in other solventsNo information availablePartition Coefficient (n-octanol/water)Vapor Pressure23 hPa @ 20 °CDensity / Specific GravityNo data availableBulk DensityNot applicableVapor DensityNo data availableParticle characteristicsNot applicable (liquid)

Liquid (Air = 1.0)

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

| 10.1. Reactivity | None known, based on information available |
|---|--|
| 10.2. Chemical stability | Light sensitive. |
| 10.3. Possibility of hazardous react | tions |
| Hazardous Polymerization Hazardous Reactions | No information available. None under normal processing. |
| 10.4. Conditions to avoid | Incompatible products. Excess heat. |
| 10.5. Incompatible materials | None known. |

10.6. Hazardous decomposition products

Hydrogen chloride. Oxides of phosphorus. Potassium oxides. Sodium oxides. Gold oxide.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

(a) acute toxicity; Oral

Inhalation

Dermal

Based on available data, the classification criteria are not met No data available No data available

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------------|-------------------------|-----------------------------|---------------------------|
| Water | - | - | - |
| Sodium chloride | LD50 = 3 g/kg (Rat) | LD50 > 10000 mg/kg (Rabbit) | LC50 > 42 mg/L (Rat)1 h |
| Sodium phosphate dibasic | LD50 = 17 g/kg (Rat) | - | - |
| Dihydrogen potassium phosphate | LD50 = 3200 mg/kg (Rat) | LD50 > 4640 mg/kg (Rabbit) | LC50 > 0.83 mg/L (Rat)4 h |
| Potassium chloride | LD50 = 2600 mg/kg (Rat) | - | - |

| (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; | No data available |
| (h) STOT-single exposure; | No data available |
| (i) STOT-repeated exposure; | No data available |
| Target Organs | No information available. |
| (j) aspiration hazard; | No data available |
| Symptoms / effects,both acute and delayed | No information available. |

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

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

| Component | Freshwater Fish | Water Flea | Freshwater Algae |
|--------------------|--|---------------------|---------------------|
| Sodium chloride | Pimephals prome: LC50: 7650 mg/L/96h | EC50: 1000 mg/L/48h | |
| Potassium chloride | Lepomis macrochirus: LC50: 1060 mg/L /96h Pimephales promelas: LC50: 750 - 1020 mg/L /96h | EC50: 825 mg/L/48h | EC50: 2500 mg/L/72h |

| 12.2. Persistence and degradability | 5 5 1 |
|-------------------------------------|---|
| | pre-treatment is necessary |
| Persistence | based on information available, May persist. |
| Degradation in sewage | Contains substances known to be hazardous to the environment or not degradable in waste |
| treatment plant | water treatment plants. |
| - | |

<u>12.3. Bioaccumulative potential</u> May have some potential to bioaccumulate

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| <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 | No data available for assessment. |
| <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 |
| SE | CTION 13: DISPOSAL CONSIDERATIONS |
| 13.1. Waste treatment methods | |
| Waste from Residues/Unused Products | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |
| Contaminated Packaging | Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers. |
| European Waste Catalogue (EWC) | According to the European Waste Catalog, Waste Codes are not product specific, but application specific. |
| Other Information | Waste codes should be assigned by the user based on the application for which the product was used. |

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

Not regulated

14.1. UN number14.2. UN proper shipping name14.3. Transport hazard class(es)14.4. Packing group

ADR

Not regulated

14.1. UN number14.2. UN proper shipping name14.3. Transport hazard class(es)14.4. Packing group

<u>IATA</u>

Not regulated

14.1. UN number14.2. UN proper shipping name14.3. Transport hazard class(es)14.4. Packing group

14.5. Environmental hazards

No hazards identified

Gold nanoparticles, 400nm, supplied in 0.1mM PBS

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 |
|--------------------------------|-----------|-----------|--------|-----|-------|------|----------|------|------|
| Water | 7732-18-5 | 231-791-2 | - | - | Х | Х | KE-35400 | Х | - |
| Gold | 7440-57-5 | 231-165-9 | - | - | Х | Х | KE-18083 | Х | - |
| Sodium chloride | 7647-14-5 | 231-598-3 | - | - | Х | Х | KE-31387 | Х | Х |
| Sodium phosphate dibasic | 7558-79-4 | 231-448-7 | - | - | Х | Х | KE-12344 | Х | Х |
| Dihydrogen potassium phosphate | 7778-77-0 | 231-913-4 | - | - | Х | Х | KE-28622 | Х | Х |
| Potassium chloride | 7447-40-7 | 231-211-8 | - | - | Х | Х | KE-29086 | Х | Х |

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|--------------------------------|-----------|------|---|-----|------|------|-------|-------|
| Water | 7732-18-5 | Х | ACTIVE | Х | - | Х | Х | Х |
| Gold | 7440-57-5 | Х | ACTIVE | Х | - | Х | Х | Х |
| Sodium chloride | 7647-14-5 | Х | ACTIVE | Х | - | Х | Х | Х |
| Sodium phosphate dibasic | 7558-79-4 | Х | ACTIVE | Х | - | Х | Х | Х |
| Dihydrogen potassium phosphate | 7778-77-0 | Х | ACTIVE | Х | - | Х | Х | Х |
| Potassium chloride | 7447-40-7 | 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 (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|--------------------------------|-----------|---|--|---|
| Water | 7732-18-5 | - | - | - |
| Gold | 7440-57-5 | - | Use restricted. See item 75. (see link for restriction details) | - |
| Sodium chloride | 7647-14-5 | - | - | - |
| Sodium phosphate dibasic | 7558-79-4 | - | - | - |
| Dihydrogen potassium phosphate | 7778-77-0 | - | - | - |
| Potassium chloride | 7447-40-7 | - | - | - |

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) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|--------------------------|-----------|---|--|
| Water | 7732-18-5 | Not applicable | Not applicable |
| Gold | 7440-57-5 | Not applicable | Not applicable |
| Sodium chloride | 7647-14-5 | Not applicable | Not applicable |
| Sodium phosphate dibasic | 7558-79-4 | Not applicable | Not applicable |
| Dihydrogen potassium | 7778-77-0 | Not applicable | Not applicable |

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| phosphate | | | |
|--------------------|-----------|----------------|----------------|
| Potassium chloride | 7447-40-7 | 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 .

National Regulations

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

WGK Classification

Water endangering class = non-hazardous to waters (self classification)

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|-----------------------------------|---------------------------------------|-------------------------|
| Gold | nwg | |
| Sodium chloride | WGK1 | |
| Sodium phosphate dibasic | WGK1 | |
| Dihydrogen potassium phosphate | WGK1 | |
| Potassium chloride | WGK1 | |

| Component | France - INRS (Tables of occupational diseases) |
|--------------------|--|
| Sodium chloride | Tableaux des maladies professionnelles (TMP) - RG 78 |
| Potassium chloride | Tableaux des maladies professionnelles (TMP) - RG 67 |

| Component | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|--|--|---|--|
| Sodium chloride 7647-14-5 (0.008) | Prohibited and Restricted Substances | | |

15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: OTHER INFORMATION

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

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 Substances List **PICCS** - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japanese Existing and New Chemical Substances **IECSC** - Chinese Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals KECL - Korean Existing and Evaluated Chemical Substances

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| 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 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, F | ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound) | | | |
| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | | | |

| Physical hazards | On basis of test data |
|-----------------------|-----------------------|
| Health Hazards | Calculation method |
| Environmental hazards | Calculation method |

Training Advice

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

Prepared By Revision Date Revision Summary Health, Safety and Environmental Department 17-Mar-2024 New emergency telephone response service provider.

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

Disclaimer

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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