

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

MSDS Number: AA06900-0000000220 Issue date: 11/3/2020 Revision date: 12/29/2021 Version: 1.0

1. Chemical product and company identification

1.1. Product identifier

Product form : Mixture
Trade name : KST-309LMoT

1.2. Recommended uses and restrictions

Use Categories

35 - Welding and soldering products, flux products

1.2.1. Recommended use

Welding and soldering products, flux products.

1.2.2. Restrictions on use

1.3. Supplier information

- Supplier

Company : KISWEL

Address : (51544) South Korea 704, Gongdan-ro, Seongsan-gu, Changwon-si, Gyeongnam, Korea

Tel. : 055)269-7200 Fax : 055)266-4487

2. Hazards identification

2.1. Classification of the substance or mixture

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity - Repeated exposure, Category 1	H372
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

2.2. Label elements

2.2.1. Hazard pictograms (GHS KR)







2.2.2. Signal word (GHS KR)

Danger.

2.2.3. Hazard statements (GHS KR)

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H334 - May cause allergic reactions, asthma or shortness of breath and etc if inhaled.

H351 - Suspected of causing cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

2.2.4. Precautionary statements (GHS KR)

Precaution:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands, forearms and face thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P284 Wear respiratory protection.

Treatment

P302+P352 - IF ON SKIN: Wash with plenty of water/....

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER/doctor/....

P314 - Get medical advice/attention if you feel unwell.

P321 - Take ... treatment.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/....

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

Storage:

P405 - Store locked up.

Disposal:

P501 - Dispose of contents/container according to waste related regulations.

2.3. Hazards - Other hazards which do not result in classification - Hazard Risk

Not applicable

3. Composition/information on ingredients

Product form : Mixture

Substance name	Other Names	Product identifier number	Concentration (%)
Iron	Iron, elemental / Direct reduced Iron / Iron, reduced / Elemental iron / IRON POWDER / iron	CAS-No.: 7439-89-6 KECI-No.: KE-21059	40 – 44
Chromium	Chromium metal / Chromium, elemental / Chromium, metal / Chromium, metallic / Chrome, metal / Chrome	CAS-No.: 7440-47-3 KECI-No.: KE-05970	16 – 20
Titanium Dioxide	C.I. 77891 / C.I. Pigment White 6 / Titanium oxide (TiO2) / CI 77891 / Titanium(IV) oxide / C.I. Pigment White 7 / Pigment White 6 / Titanium dioxide nanoparticles / TITANIUM DIOXIDE / Titanium oxide / Titanium dioxide(2)	CAS-No.: 13463-67-7 KECI-No.: KE-33900	10 – 15

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Substance name	Other Names	Product identifier number	Concentration (%)
Nickel	Nickel metal / Nickel, elemental / Nickel, metallic / Nickel, metal / C.I. 77775	CAS-No.: 7440-02-0 KECI-No.: KE-25818	8 – 10
	Mica dust / Mica group minerals / Silicates, mica / C.I. 77019 / Mica- group minerals / MICA / C.I. Pigment White 20 / Pigment White 20	CAS-No.: 12001-26-2 KECI-No.: KE-25420	2 – 8
	C.I. Pigment White 18 / Calcium carbonate / Pigment White 18 / C.I. 77220 / Carbonic acid, calcium salt / CALCIUM CARBONATE / CI 77220 / calcium carbonate	CAS-No.: 471-34-1 KECI-No.: KE-04487	1 – 5
Molybdenum	Molybdenum metal / Molybdenum, elemental / Molybdenum, metal / Molybdenum, metallic / molybdenum	CAS-No.: 7439-98-7 KECI-No.: KE-25427	1 – 4
CaF2	Calcium fluoride / Fluorspar / FLUORSPAR / CALCIUM FLUORIDE / Calcium difluoride / calcium fluoride	CAS-No.: 7789-75-5 KECI-No.: KE-04538	0.5 – 3
	Silicic acid, sodium salt / SODIUM SILICATE / Sodium silicates	CAS-No.: 1344-09-8 KECI-No.: KE-31002	1 – 3
Manganese	Manganese, elemental / Manganese metal / manganese	CAS-No.: 7439-96-5 KECI-No.: KE-22999	1 – 3

4. First-aid measures

4.1. First-aid measures after eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Call a physician immediately.

4.2. First-aid measures after skin contact

Wash skin with plenty of water.

Take off contaminated clothing.

If skin irritation occurs: Get medical advice/attention.

4.3. First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.

4.4. First-aid measures after ingestion

Call a poison center or a doctor if you feel unwell.

4.5. Other medical advice or treatment

Treat symptomatically.

5. Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

Unsuitable extinguishing media : No data available

12/29/2021 (Revision date) KR - en 3/23

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate spillage area.

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid contact with skin and eyes.

Do not attempt to take action without suitable protective equipment.

For further information refer to section 8: "Exposure controls/personal protection".

Dispose of materials or solid residues at an authorized site.

6.2. Environmental precautions and protective procedures

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Mechanically recover the product.

7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station.

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse.

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

Always wash hands after handling the product.

7.2. Conditions for safe storage

Storage conditions : Store in a well-ventilated place.

Keep cool.

8. Exposure controls/personal protection

8.1. Occupational Exposure Limits

KST-309LMoT

No data available

(12001-26-2)

Korea - Occupational Exposure Limits

Rolea - Occupational Exposure Limits	
Local name	운모#Mica
ISHA OEL TWA	3 mg/m³ 호흡성 # (Respirable fraction)
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48

Material Safety Data Sheet

(12001-26-2)		
China - Occupational Exposure Limits		
OEL PC-TWA	2 mg/m³ (total dust) 1.5 mg/m³ (respirable dust)	
Catalogue of Occupational Hazard Factors	Category 1 - Dusts	
Indonesia - Occupational Exposure Limits		
NAB (OEL TWA)	3 mg/m³ (respirable particulate)	
Singapore - Occupational Exposure Limits		
PEL (OEL TWA)	3 mg/m³ (respirable dust)	
Taiwan - Occupational Exposure Limits		
OEL TWA	3 mg/m³ (respirable dust)	
OEL STEL	6 mg/m³ (respirable dust)	
Thailand - Occupational Exposure Limits		
OEL TWA	3 mg/m³ (respirable dust)	
Australia - Occupational Exposure Limits		
OES TWA [1]	2.5 mg/m³ (inspirable)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.1 mg/m³ (respirable particulate matter)	
USA - IDLH - Occupational Exposure Limits		
IDLH	1500 mg/m³ (containing <1% quartz)	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	3 mg/m³ (containing <1% Quartz-respirable dust)	
(471-34-1)		
Korea - Occupational Exposure Limits		
Local name	탄산칼슘 # Calcium carbonate	
ISHA OEL TWA	10 mg/m³	
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48	
China - Occupational Exposure Limits		
Catalogue of Occupational Hazard Factors	Category 3 - Chemicals	
Vietnam - Occupational Exposure Limits		
OEL TWA	10 mg/m³	
Australia - Occupational Exposure Limits		
OES TWA [1]	10 mg/m³ (containing no asbestos and <1% crystalline silica-inhalable dust)	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)	
CaF2 (7789-75-5)		
China - Occupational Exposure Limits		
OEL PC-TWA	0.7 mg/m³ (mixed dust, respirable) 1 mg/m³ (mixed dust, total)	

Material Safety Data Sheet

CaF2 (7789-75-5)		
Catalogue of Occupational Hazard Factors Category 1 - Dusts		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	2.5 mg/m³	
(1344-09-8) No data available		
Titanium Dioxide (13463-67-7)		
Korea - Occupational Exposure Limits		
Local name	이산화티타늄 # Titanium dioxide	
ISHA OEL TWA	10 mg/m³	
Remark (KR)	발암성 2 # Carcinogenicity 2	
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48	
China - Occupational Exposure Limits		
OEL PC-TWA	8 mg/m³ (total dust)	
Chemical category	Possibly carcinogenic to humans dust	
Catalogue of Occupational Hazard Factors	Category 1 - Dusts	
Indonesia - Occupational Exposure Limits		
NAB (OEL TWA)	10 mg/m³	
Chemical category	A4 - not classifiable as a human carcinogen	
Singapore - Occupational Exposure Limits		
PEL (OEL TWA) 10 mg/m³		
Taiwan - Occupational Exposure Limits		
OEL TWA	10 mg/m ³	
OEL STEL	15 mg/m³	
Vietnam - Occupational Exposure Limits		
OEL TWA	6 mg/m³ (inhalable dust) 5 mg/m³ (respirable dust)	
OEL STEL	10 mg/m³ (inhalable dust)	
Australia - Occupational Exposure Limits		
OES TWA [1] 10 mg/m³ (containing no asbestos and <1% crystalline silica-inhalable dust)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	10 mg/m³	
ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA - IDLH - Occupational Exposure Limits		
IDLH	5000 mg/m³	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	2.4 mg/m³ (CIB 63-fine) 0.3 mg/m³ (CIB 63-ultrafine, including engineered nanoscale)	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	15 mg/m³ (total dust)	

Material Safety Data Sheet

Iron (7439-89-6)		
Korea - Occupational Exposure Limits		
Local name	철염(가용성) # Iron salts (Soluble, as Fe)	
ISHA OEL TWA	1 mg/m³	
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48	
China - Occupational Exposure Limits		
Catalogue of Occupational Hazard Factors	Category 1 - Dusts	
Indonesia - Occupational Exposure Limits		
NAB (OEL TWA)	1 mg/m³	
Manganese (7439-96-5)		
Korea - Occupational Exposure Limits		
Local name	망간 및 무기 화합물 # Manganese&Inorganic compounds, as Mn	
ISHA OEL TWA	1 mg/m³ 1 mg/m³ (音) # (Fume)	
ISHA OEL STEL	3 mg/m³ (音) # (Fume)	
ISHA PEL TWA	1 mg/m³	
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48	
China - Occupational Exposure Limits		
OEL PC-TWA	0.15 mg/m³	
OEL PC-TWA (Highly Toxic Goods)	0.15 mg/m³ (dust and fume)	
OEL PC-STEL (Highly Toxic Goods)	0.45 mg/m³ (dust and fume)	
Catalogue of Occupational Hazard Factors	Category 3 - Chemicals	
India - Occupational Exposure Limits		
PEL (OEL TWA)	1 mg/m³ (fume)	
PEL (OEL STEL)	0.03 mg/m³ (fume)	
PEL (OEL C)	5 mg/m³ (dust)	
Indonesia - Occupational Exposure Limits		
NAB (OEL TWA)	0.1 mg/m³ (inhalable particulate) 0.02 mg/m³ (respirable particulate)	
Chemical category	A4 - not classifiable as a human carcinogen	
Singapore - Occupational Exposure Limits		
PEL (OEL TWA)	1 mg/m³ (dust and fume)	
OEL STEL	3 mg/m³ (fume)	
Singapore - BTLV		
BTLV	50 μg/l Parameter: Manganese - Medium: urine	
Taiwan - Occupational Exposure Limits		
OEL TWA	1 mg/m³ (category C3 special chemical-fume)	
OEL STEL	2 mg/m³ (category C3 special chemical-fume)	
OEL C	5 mg/m³ (category C3 special chemical)	

Material Safety Data Sheet

Manganese (7439-96-5)		
Vietnam - Occupational Exposure Limits		
OEL TWA	0.3 mg/m³	
OEL STEL	0.6 mg/m³	
Australia - Occupational Exposure Limits		
OES TWA [1]	1 mg/m³ (dust and fume)	
OES STEL	3 mg/m³ (fume)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.02 mg/m³ (respirable particulate matter) 0.1 mg/m³ (inhalable particulate matter)	
ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA - IDLH - Occupational Exposure Limits		
IDLH	500 mg/m ³	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	1 mg/m³ (fume)	
NIOSH REL STEL	3 mg/m³	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL C	5 mg/m³ (fume)	
Nickel (7440-02-0)		
Korea - Occupational Exposure Limits		
Local name	니켈 (금속) # Nickel (Metal)	
ISHA OEL TWA	1 mg/m³ (metal)	
ISHA PEL TWA	0.2 mg/m³	
Remark (KR)	발암성 2 # Carcinogenicity 2	
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48	
China - Occupational Exposure Limits		
OEL PC-TWA	1 mg/m³	
Chemical category	Possibly carcinogenic to humans	
OEL PC-TWA (Highly Toxic Goods)	1 mg/m³	
OEL PC-STEL (Highly Toxic Goods)	2.5 mg/m³	
Catalogue of Occupational Hazard Factors	Category 3 - Chemicals	
Indonesia - Occupational Exposure Limits		
NAB (OEL TWA)	1.5 mg/m³ (inhalable particulate)	
Chemical category	A5 - not suspected as human carcinogen	
Singapore - Occupational Exposure Limits		
PEL (OEL TWA)	1 mg/m³	
Taiwan - Occupational Exposure Limits		
OEL TWA	1 mg/m³	
OEL STEL	2 mg/m³	

Material Safety Data Sheet

Nickel (7440-02-0)		
Thailand - Occupational Exposure Limits		
DEL TWA 1 mg/m³		
Vietnam - Occupational Exposure Limits		
OEL TWA	0.05 mg/m³	
OEL STEL	0.25 mg/m³	
Australia - Occupational Exposure Limits		
OES TWA [1]	1 mg/m³	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	1.5 mg/m³ (inhalable particulate matter)	
ACGIH chemical category	Not Suspected as a Human Carcinogen	
USA - ACGIH - Biological Exposure Indices		
BEI	5 μg/l Parameter: Nickel - Medium: urine - Sampling time: post-shift at end of workweek (background)	
USA - IDLH - Occupational Exposure Limits		
IDLH	10 mg/m³	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	0.015 mg/m³	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	1 mg/m³	
Chromium (7440-47-3)		
Korea - Occupational Exposure Limits		
ISHA OEL TWA	0.5 mg/m³ (metal)	
China - Occupational Exposure Limits		
OEL PC-TWA	0.05 mg/m³	
Chemical category	Sensitizer, Carcinogenic to humans	
OEL PC-TWA (Highly Toxic Goods)	0.15 mg/m³	
OEL MAC (Highly Toxic Goods)	0.05 mg/m³	
Catalogue of Occupational Hazard Factors	Category 3 - Chemicals	
Indonesia - Occupational Exposure Limits		
NAB (OEL TWA)	0.5 mg/m³	
Chemical category	A4 - not classifiable as a human carcinogen	
Singapore - Occupational Exposure Limits		
PEL (OEL TWA)	0.5 mg/m³	
Taiwan - Occupational Exposure Limits		
OEL TWA	1 mg/m³	
OEL STEL	2 mg/m³	
Australia - Occupational Exposure Limits		
OES TWA [1]	0.5 mg/m³	

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Chromium (7440-47-3)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.5 mg/m³ (inhalable particulate matter)	
USA - ACGIH - Biological Exposure Indices		
BEI	$0.7~\mu\text{g/l}$ Parameter: Total chromium - Medium: urine - Sampling time: end of shift at end of workweek (population based)	
USA - IDLH - Occupational Exposure Limits		
IDLH	250 mg/m³	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	0.5 mg/m³	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	1 mg/m³	
Molybdenum (7439-98-7)		
Korea - Occupational Exposure Limits		
Local name	몰리브덴 (불용성화합물) # Molybdenum (Insoluble compounds)	
ISHA OEL TWA	10 mg/m³ 흡입성 # (Inhalable fraction) 5 mg/m³ 호흡성 # (Respirable fraction)	
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48	
Indonesia - Occupational Exposure Limits		
NAB (OEL TWA)	5 mg/m³ (respirable particulate)	
Chemical category	A3 - confirmed animal carcinogen	
Australia - Occupational Exposure Limits		
OES TWA [1]	10 mg/m³	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	10 mg/m³ (inhalable particulate matter) 3 mg/m³ (respirable particulate matter)	
USA - IDLH - Occupational Exposure Limits		
IDLH	5000 mg/m³	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Environmental exposure controls : Avoid release to the environment.

8.3. Personal protection

Respiratory protection:	
	In case of insufficient ventilation, wear suitable respiratory equipment

Eye protection:	
Safety glasses	

Hand protection:	
Protective gloves	

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Skin and body protection:

Wear suitable protective clothing

Personal protective equipment symbol(s):







9. Physical and chemical properties

a) Appearance : No data available

Physical state : Solid

b) Odour : No data available
c) Odour threshold : No data available
d) pH : No data available

e) Melting / freezing point : No data available / Not applicable

Initial boiling point and boiling range f) : No data available g) Flash point : No data available Evaporation rate : No data available h) Flammability (solid, gas) : No data available i) Upper / lower flammability or explosive limits : No data available j) Vapour pressure : No data available k) I) Solubility : No data available : No data available m) Vapour density : No data available n) Relative density : No data available Partition coefficient n-octanol/water 0) : No data available Auto-ignition temperature p) Decomposition temperature No data available q) : No data available Viscosity, kinematic r) Viscosity, dynamic : No data available

10. Stability and reactivity

Molecular mass

10.1. Chemical stability and Possibility of hazardous reactions

The product is non-reactive under normal conditions of use, storage and transport.

Stable under normal conditions.

No dangerous reactions known under normal conditions of use.

10.2. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.3. Incompatible materials

No data available

10.4. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1. Information on exposure routes

Oral : Not classified

Skin and eyes contact : Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction.

Inhalation : May cause allergic reactions, asthma or shortness of breath and etc if inhaled.

: No data available

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

11.2. Health hazards

Acute toxicity (oral):

Not classified

Acute toxicity (dermal):

Not classified

Acute toxicity (inhalation):

Not classified

(12001-26-2)	
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)

(471-34-1)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	> 3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

CaF2 (7789-75-5)	
LD50 oral rat	4250 mg/kg
LC50 Inhalation - Rat	> 5.07 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

(1344-09-8)	
LD50 oral rat	3400 mg/kg Source: SIDS
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

Titanium Dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	> 3.43 mg/l Source: ECHA

Iron (7439-89-6)	
LD50 oral rat	98600 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 250 mg/m³ air (6 h, Rat, Male, Experimental value, Inhalation (dust))

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Manganese (7439-96-5)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LC50 Inhalation - Rat	> 5.14 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))
LC50 Inhalation - Rat (Dust/Mist)	> 5.14 mg/l Source: ECHA

Nickel (7440-02-0)	
LD50 oral rat	> 9000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 10.2 mg/l (Exposure time: 1 h)

Chromium (7440-47-3)	
LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 420, Rat, Male / female, Readacross, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.41 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 5.41 mg/l Source: ECHA

Molybdenum (7439-98-7)	
LD50 oral rat	> 2000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 5.84 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 3.92 mg/l Source: ECHA

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory sensitization:

May cause allergic reactions, asthma or shortness of breath and etc if inhaled.

Skin sensitization:

May cause an allergic skin reaction.

Carcinogenicity:

Suspected of causing cancer.

Titanium Dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

Nickel (7440-02-0)	
IARC group	2B - Possibly carcinogenic to humans

Chromium (7440-47-3)	
IARC group	3 - Not classifiable

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Mutagenicity:

Not classified

Reproductive toxicity:

Not classified

STOT-single exposure:

Not classified

STOT-repeated exposure:

Causes damage to organs through prolonged or repeated exposure.

(471-34-1)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≥ 0.212 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Nickel (7440-02-0)	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.004 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Chromium (7440-47-3)	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	≥ 0.0044 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Molybdenum (7439-98-7)	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

Not classified

(471-34-1)	
Viscosity, kinematic (calculated value) (40 °C)	Not applicable (solid)
Density	2.7 – 2.9 g/cm³ (at 20 °C)
Viscosity, kinematic	Not applicable (solid)
Viscosity, dynamic	Not applicable (solid)

CaF2 (7789-75-5)	
Density	3.18 g/cm³ Type: 'density'

(1344-09-8)	
Density	1350 – 1380 kg/m³

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Titanium Dioxide (13463-67-7)	
Viscosity, kinematic (calculated value) (40 °C)	Not applicable (solid)
Density	3.9 – 4.1 g/cm ³
Viscosity, kinematic	Not applicable (solid)
Viscosity, dynamic	Not applicable (solid)

Iron (7439-89-6)	
Density	7.87 g/cm³ Type: 'density' Temp.: 20 °C

Manganese (7439-96-5)	
Density	7200 kg/m³

Nickel (7440-02-0)	
Viscosity, kinematic (calculated value) (40 °C)	Not applicable (solid)
Density	8.9 g/cm³ (at 25 °C)
Viscosity, kinematic	Not applicable (solid)
Viscosity, dynamic	Not applicable (solid)

Chromium (7440-47-3)	
Density	7.19 g/cm³ (at 20 °C)

Molybdenum (7439-98-7)	
Density	10.2 g/cm³ (at 20 °C)

12. Ecological information

12.1. Ecotoxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

: Not classified

Hazardous to the aquatic environment, short-term

(acute)
Hazardous to the aquatic environment, long–term

icute)

(chronic)

: Harmful to aquatic life with long lasting effects.

(471-34-1)	
LC50 - Fish [1]	> 56000 mg/l Source: ECOTOX
EC50 - Crustacea [1]	> 100 % (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 96h - Algae [1]	22000 mg/l Source: Ecological Structure Activity Relationships
EC50 72h - Algae [1]	> 14 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
BCF - Fish [1]	(no bioaccumulation)

Material Safety Data Sheet

CaF2 (7789-75-5)	
LC50 - Fish [1]	51 mg/l Test organisms (species): other:summary of finidngs in various species
LC50 - Fish [2]	165 mg/l Test organisms (species): other:summary of finidngs in various species
EC50 - Crustacea [1]	97 – 270 mg/l (48 h, Daphnia magna, Static system, Fresh water, Literature, Fluorine ion)
EC50 96h - Algae [1]	7444.076 mg/l Source: Ecological Structure Activity Relationships
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	14.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	4 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '21 d'

(1344-09-8)	
LC50 - Fish [1]	1108 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
EC50 - Crustacea [1]	1700 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	160 mg/l (96 h, Amphipoda)
EC50 72h - Algae [1]	207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 345.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
BCF - Fish [1]	(no bioaccumulation expected)

Titanium Dioxide (13463-67-7)	
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Iron (7439-89-6)	
LC50 - Fish [1]	8.65 mg/l Source: ECHA
LC50 - Other aquatic organisms [1]	106.3 mg/l Source: ECHA
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	> 10000 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	18 mg/l Source: ECHA

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Manganese (7439-96-5)	
LC50 - Fish [1]	> 3.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 1.6 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	2.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '8 d'
BCF - Fish [1]	81 (Pisces)
BCF - Other aquatic organisms [1]	300000 (Mollusca)
BCF - Other aquatic organisms [2]	125000 (Crustacea)

Nickel (7440-02-0)	
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
LC50 - Fish [2]	1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 - Crustacea [1]	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 96h - Algae [1]	0.174 – 0.311 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 72h - Algae [1]	0.18 mg/l (Species: Pseudokirchneriella subcapitata)
BCF - Other aquatic organisms [1]	8 – 45 (≤ 4 week(s), Cambarus sp., Flow-through system, Fresh water, Experimental value, Fresh weight)

Chromium (7440-47-3)	
LC50 - Fish [1]	13.9 – 210 mg/l Source: GESTIS
EC50 - Crustacea [1]	17.7 – 18.9 mg/l Source: ECHA
EC50 72h - Algae [1]	0.1 – 17.8 mg/l Source: GESTIS
BCF - Fish [1]	0.0048 (Pisces, Literature study, Dry weight)
Partition coefficient n-octanol/water (Log Pow)	0.23 Source: SRC

Molybdenum (7439-98-7)	
LC50 - Fish [1]	609.1 mg/l Source: EHCA
EC50 72h - Algae [1]	289.2 mg/l Source: ECHA
BCF - Fish [1]	260 – 500 (Tilapia rendalli)
Partition coefficient n-octanol/water (Log Pow)	0.23 Source: SRC Access on Jan 2006

12.2. Persistence and degradability

(12001-26-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Material Safety Data Sheet

(471-34-1)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

CaF2 (7789-75-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

(1344-09-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Titanium Dioxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Iron (7439-89-6)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Manganese (7439-96-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Nickel (7440-02-0)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Chromium (7440-47-3)	
Persistence and degradability	Biodegradability: not applicable.

Material Safety Data Sheet

Chromium (7440-47-3)		
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
Molybdenum (7439-98-7)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
12.3. Bioaccumulative potential		
(12001-26-2)		
Bioaccumulative potential	No bioaccumulation data available.	
(471-34-1)		
BCF - Fish [1]	(no bioaccumulation)	
Bioaccumulative potential	Not bioaccumulative.	
CaF2 (7789-75-5)		
Bioaccumulative potential	No bioaccumulation data available.	
(1344-09-8)		
BCF - Fish [1]	(no bioaccumulation expected)	

(1344-03-0)	
BCF - Fish [1]	(no bioaccumulation expected)
Bioaccumulative potential	Bioaccumulation: not applicable.

Titanium Dioxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.

Iron (7439-89-6)	
Bioaccumulative potential	No bioaccumulation data available.

Manganese (7439-96-5)	
BCF - Fish [1]	81 (Pisces)
BCF - Other aquatic organisms [1]	300000 (Mollusca)
BCF - Other aquatic organisms [2]	125000 (Crustacea)
Bioaccumulative potential	No bioaccumulation data available.

Nickel (7440-02-0)	
BCF - Other aquatic organisms [1]	$8-45\ (\le 4\ \text{week(s)},\ \text{Cambarus sp.},\ \text{Flow-through system},\ \text{Fresh water},\ \text{Experimental value},\ \text{Fresh weight)}$
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

III ACCORDANCE WITH MOEL Public Hotice No 2020-130	
Chromium (7440-47-3)	
BCF - Fish [1]	0.0048 (Pisces, Literature study, Dry weight)
Partition coefficient n-octanol/water (Log Pow)	0.23 Source: SRC
Bioaccumulative potential	Not bioaccumulative.
Molybdenum (7439-98-7)	
BCF - Fish [1]	260 – 500 (Tilapia rendalli)

Molybdenum (7439-98-7)	
BCF - Fish [1]	260 – 500 (Tilapia rendalli)
Partition coefficient n-octanol/water (Log Pow)	0.23 Source: SRC Access on Jan 2006
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

(12001-26-2)		
	Ecology - soil	No (test)data on mobility of the substance available.

(471-34-1)	
Mobility in soil	4.971 Source: Quantitative Structure Activity Relation
Surface tension	No data available (test not performed)
Ecology - soil	Low potential for adsorption in soil.

CaF2 (7789-75-5)	
Ecology - soil	No (test)data on mobility of the substance available.

(1344-09-8)	
Ecology - soil	No (test)data on mobility of the component(s) available.

Titanium Dioxide (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.

Iron (7439-89-6)	
Surface tension	Not applicable (solid)
Ecology - soil	Adsorbs into the soil.

Manganese (7439-96-5)	
Ecology - soil	No (test)data on mobility of the substance available.

Nickel (7440-02-0)		
Surface tension	Not applicable (solid)	
Ecology - soil	No (test)data on mobility of the substance available.	

Chromium (7440-47-3)		
Surface tension	No data available (test not performed)	

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Chromium (7440-47-3)		
Partition coefficient n-octanol/water (Log Pow)	0.23 Source: SRC	
Ecology - soil	No (test)data on mobility of the substance available.	

Molybdenum (7439-98-7)		
Partition coefficient n-octanol/water (Log Pow)	0.23 Source: SRC Access on Jan 2006	
Ecology - soil	Adsorbs into the soil.	

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No data available

13. Disposal considerations

13.1. Disposal method

Dispose of contents/container in accordance with licensed collector's sorting instructions.

13.2. Disposal precaution

No data available

14. Transport information

UN RTDG	ADR	IMDG	IATA		
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping name					
Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Marine pollutant					
Not applicable	Not applicable	Not applicable	Not applicable		
No supplementary information available					

14.6. Special precautions for user

No data available

15. Regulatory information

15.1. Occupational Safety and Health Act

Hazardous Substances Prohibited for Manufacturing Hazardous Substances Requiring Permission Threshold Limit Values Chemicals

Not applicable Not applicable

Applicable 12001-26-2: Mica

13463-67-7: Titanium dioxide 7439-89-6: Iron salts (Soluble, as Fe)

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

7439-96-5: Manganese&Inorganic compounds, as Mn 7440-02-0: Nickel 7440-47-3: Chromium 7439-98-7: Molybdenum alloys (as Mo) Hazardous Substances Below Permissible Level Applicable 7439-96-5: Manganese and its inorganic compounds 7440-02-0: Nickel and its insoluble inorganic compounds Hazardous Substances Subject to Working Applicable 12001-26-2: Mica **Environment Measurement** 13463-67-7: Titanium dioxide 7439-96-5: Manganese and its inorganic compounds 7440-02-0: Nickel and its inorganic compounds 7440-47-3: Chromium and its inorganic compounds Hazardous Substances Subject to Workers Requiring 7439-96-5: Manganese and its inorganic compounds Applicable Health Examination 7440-02-0: Nickel and its inorganic compounds 7440-47-3: Chromium and its compounds Hazardous Substances Subject to Control 13463-67-7: Titanium dioxide Applicable 7439-89-6: Iron and its compounds 7439-96-5: Manganese and its inorganic compounds 7440-02-0: Nickel and its inorganic compounds 7440-47-3: Chromium and its compounds(except Chromium(VI)

15.2. Chemicals Control Act

No data available

15.3. ACT ON REGISTRATION, EVALUATION, ETC. OF CHEMICALS (K-REACH)

No data available

15.4. Safety Control of Dangerous Substances Act

Safety Control of Dangerous Substances Act

Applicable

(Class 2 Combustible solid - category 4 Iron Powder (Designated quantity:

500kg); Class 2 Combustible solid - category 5 Metal powder (Designated

quantity: 500kg))

compounds)

Applicable 7439-89-6: Iron powder

(Class 2 Combustible solid - category 4 Iron Powder (Designated quantity:

500kg))

7439-96-5: Manganese powder

(Class 2 Combustible solid - category 5 Metal powder (Designated quantity:

500kg))

7440-47-3: Chromium powder

(Class 2 Combustible solid - category 5 Metal powder (Designated quantity:

500kg))

7439-98-7: Molybdenum powder

(Class 2 Combustible solid - category 5 Metal powder (Designated quantity:

500kg))

15.5. Wastes Control Act

Hazardous Substances in Designated wastes Types of wastes

Not applicable
No data available

15.6. Other Domestic and International Regulatory Information

Domestic

Persistent Organic Pollutants(POPs) Control Act

Not applicable Not applicable

Ozone Depleting Substances(ODS)

International

EU Regulatory Information

EU Candidate list (SVHC)

Contains no substance on the REACH candidate list

EU authorization list (REACH Annex XIV)

Contains no REACH Annex XIV substances

Not applicable

EU restriction list (REACH Annex XVII)

US Regulatory Information

CERCLA Section 103 (40CFR302.4) Contains listed substances

12/29/2021 (Revision date) KR - en 22/23

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

EPCRA Section 302 (40CFR355.30) EPCRA Section 304 (40CFR355.40) EPCRA Section 313 (40CFR372.65)

Contains listed substances

Not applicable

Not applicable

International agreements

No data available

16. Other information

16.1. Data sources:

16.2. Issue date:

This safety data sheet was compiled with data and information from the following sources: RTECS, ECOSAR, HSDB, SIDS SIAP, ChemWATCH, CESAR, Chemical DB, This MSDS is prepared based on KOSHA, NITE, ESIS, NLM, SIDS, IPCS, NCIS, etc, This MSDS is prepared based on Article 41 of the Occupational Safety and Health Act and Notice No.2016-19 of the Ministry of Employment and Labor (based on the availability of material safety and health data), taking into account the status of regulations related to Korea, No data available, Supplier's safety documents, ECHA (European Chemicals

Agency), Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013, REGULATION (EC) No 1272/2008 OF THE EUROPEAN

PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC

and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

11/3/2020

16.3. Revision number and date: 1.0, 29/12/2021 **16.4. Other information:** No data available

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.