

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130 MSDS Number: AA06900-000000147 Issue date: 6/28/1996 Revision date: 5/15/2025 Version: 8.0

1. Chemical product and company identification

1.1. Product identifier

 Product form
 : Mixture

 Trade name
 : K-71TM

 Product code
 : KISWEL_MIX_10

1.2. Recommended uses and restrictions

1.2.1. Recommended use

Welding and soldering products, flux products.

1.2.2. Restrictions on use

Not for use other than intended.

1.2.3. Use Categories

35 - Welding and soldering products, flux products

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

Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Specific target organ toxicity - Single exposure, Category 2	H371
Specific target organ toxicity - Repeated exposure, Category 2	H373
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)

H317 - May cause an allergic skin reaction.

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

H371 - May cause damage to organs.

H373 - May cause damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

2.2.4. Precautionary statements (GHS KR)

Precaution:

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.

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

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.

P308+P311 - IF exposed or concerned: Call a POISON CENTER/doctor/....

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

P321 - Take ... treatment.

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	83 – 90
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	5 – 9
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 eyes with water as a precaution.

4.2. First-aid measures after skin contact

Wash skin with plenty of water.

Take off contaminated clothing.

If skin irritation or rash occurs: Get medical advice/attention.

4.3. First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a poison center or a doctor.

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

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.

Unsuitable extinguishing media : No data available

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 : Contaminated work clothing should not be allowed out of the workplace.

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 locked up.

Store in a well-ventilated place.

Keep cool.

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

8. Exposure controls/personal protection

8.1. Occupational Exposure Limits

K-71TM		
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/m ³	
Chemical category	A4 - not classifiable as a human carcinogen	
Singapore - Occupational Exposure Limits		
PEL (OEL TWA)	10 mg/m ³	
Taiwan - Occupational Exposure Limits		
OEL TWA	10 mg/m³	
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	10 mg/m³ (containing no asbestos and <1% crystalline silica-inhalable dust)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	10 mg/m ³	
ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA - IDLH - Occupational Exposure Limits		
IDLH	5000 mg/m ³	
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	15 mg/m³ (total dust)	

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

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

In Accordance with MOEL Public notice No 2020-130

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 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/m³
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)

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 inadequate ventilation] wear respiratory protection.

Eye protection

Safety glasses

Hand protection

Protective gloves

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
c) Odour threshold
d) pH
i No data available
j No data available
j No data available
j No data available

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

f) Initial boiling point and boiling range : No data available

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

g) Flash point : Not applicable Evaporation rate : No data available h) Non flammable. i) Flammability (solid, gas) Upper / lower flammability or explosive limits Not applicable j) Vapour pressure No data available k) Solubility No data available I) m) Vapour density No data available Relative density No data available n) Partition coefficient n-octanol/water (Log Kow) : No data available 0) Auto-ignition temperature Not applicable p) : No data available Decomposition temperature q) Viscosity, kinematic : Not applicable : No data available Viscosity, dynamic s) Molecular mass : No data available

10. Stability and reactivity

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 : Skin sensitization - May cause an allergic skin reaction.

Inhalation : Respiratory sensitization - May cause allergic reactions, asthma or shortness of breath and

etc if inhaled.

11.2. Health hazards

Acute toxicity (oral):

Not classified

Acute toxicity (dermal):

Not classified

Acute toxicity (inhalation):

Not classified

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

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

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))

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

Skin corrosion/irritation:

Not classified

Serious eye damage/irritation:

Not classified

Respiratory sensitization:

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

Skin sensitization:

May cause an allergic skin reaction.

Carcinogenicity:

Not classified

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

Mutagenicity:

Not classified

Reproductive toxicity:

Not classified

STOT-single exposure:

May cause damage to organs.

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

Not classified

K-71TM	
Viscosity, kinematic	Not applicable

Titanium Dioxide (13463-67-7)	
Viscosity, kinematic (calculated value) (40 °C)	Not applicable (solid)
Density	3.9 – 4.1 g/cm³
Viscosity, kinematic	Not applicable (solid)
Viscosity, dynamic	Not applicable (solid)

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

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

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

12. Ecological information

12.1. Ecotoxicity

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

Hazardous to the aquatic environment, short–term $% \left(\mathbf{r}\right) =\left(\mathbf{r}\right)$

: Not classified

(acute)

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

(chronic)

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

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)

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Manganese (7439-96-5)	
BCF - Other aquatic organisms [1]	300000 (Mollusca)
BCF - Other aquatic organisms [2]	125000 (Crustacea)

12.2. Persistence and degradability

K-71TM	
Persistence and degradability	Rapidly degradable

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

12.3. Bioaccumulative potential

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.

12.4. Mobility in soil

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

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

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.

12.5. Other adverse effects

: Not classified Other adverse effects No data available

13. Disposal considerations

13.1. Disposal method

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

13.2. Disposal precaution

No data available

14. Transport information

In accordance with UN RTDG / ADR / IMDG / IATA

UN RTDG	ADR	IMDG	IATA		
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping nam	e				
Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(e	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 data 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

13463-67-7: Titanium dioxide

7439-89-6: Iron salts (Soluble, as Fe)

7439-96-5: Manganese&Inorganic compounds, as Mn

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

Hazardous Substances Below Permissible Level Applicable 7439-96-5: Manganese and its inorganic compounds

Hazardous Substances Subject to Working Applicable 13463-67-7: Titanium dioxide

Environment Measurement 7439-96-5: Manganese and its inorganic compounds

Hazardous Substances Subject to Workers Requiring Applicable 7439-96-5: Manganese and its inorganic compounds

Hazardous Substances Subject to Control Applicable 13463-67-7: Titanium dioxide

7439-89-6: Iron and its compounds

7439-96-5: Manganese and its inorganic compounds

15.2. Chemicals Control Act

No data available

Health Examination

15.3. Safety Control of Dangerous Substances Act

Safety Control of Dangerous Substances Act Applicable K-71TM

(Class 2 Combustible solid - category 4 Iron Powder (Designated quantity: 500kg); Class 2 Combustible solid - category 5 Metal powder (Designated

quantity: 500kg))

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))

15.4. Wastes Control Act

No data available

15.5. Other Domestic and International Regulatory Information

Other Domestic Regulations

Persistent Organic Pollutants(POPs) Control Act

Not applicable
Ozone Depleting Substances(ODS)

Not applicable

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

EU restriction list (REACH Annex XVII)

Not applicable

US Regulatory Information

CERCLA Section 103 (40CFR302.4)

EPCRA Section 302 (40CFR355.30)

Not applicable

EPCRA Section 304 (40CFR355.40)

Not applicable

EPCRA Section 313 (40CFR372.65) Contains listed substances

16. Other information

16.1. Data sources

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013, Supplier's safety documents, 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, ECHA (European Chemicals Agency), 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, This MSDS is prepared based on KOSHA, NITE, ESIS, NLM, SIDS, IPCS, NCIS, etc, No data available, This safety data sheet was compiled with data and information from the following sources: RTECS, ECOSAR, HSDB, SIDS SIAP, ChemWATCH, CESAR, Chemical DB.

16.2. Issue date

6/28/1996

Material Safety Data Sheet

In Accordance with MOEL Public notice No 2020-130

16.3. Revision number and date

 Version
 : 8.0

 Revision date
 : 5/15/2025

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.