

SAFETY DATA SHEET

According to JIS Z 7253:2019
Revision date 21-Feb-2024
 Revision Number 1.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Multielement Standard Solution for ICH Q3D Oral Preparation
Product Code	138-18801

Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number	+81-6-6203-3741 / +81-3-3270-8571
Recommended uses	For research use only
Restrictions on use	Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Corrosive to metals	Category 1
Acute toxicity - Inhalation (Vapors)	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 2
Category 2 respiratory system	
Specific target organ toxicity (repeated exposure)	Category 2
Category 2 respiratory system, teeth	

Pictograms



Signal word

Danger

Hazard statements

- H290 - May be corrosive to metals
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H331 - Toxic if inhaled
- H371 - May cause damage to the following organs: respiratory system
- H373 - May cause damage to the following organs through prolonged or repeated exposure: respiratory system, teeth

Precautionary statements-(Prevention)

- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not eat, drink or smoke when using this product
- Keep only in original container

Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- Absorb spillage to prevent material damage

Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- Store locked up
- Store in corrosive resistant/ container with a resistant inner liner

Precautionary statements-(Disposal)

- Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Water	94.9	18.02	N/A	N/A	7732-18-5
Nitric Acid	5.0	63.01	(1)-394	*	7697-37-2
Nickel(II) oxide	0.025	74.69	(1)-517	*	1313-99-1
Ammonium Vanadate(V)	0.023	116.98	(1)-407	*	7803-55-6
Cobalt	0.0050	58.933	-	N/A	7440-48-4
Diarsenic Trioxide	0.0040	197.84	(1)-35,(9)-2400	*	1327-53-3
Oxalic acid dihydrate	0.0020	126.07	(2)-844	*	6153-56-6
Lead(II) nitrate	0.0010	331.21	(1)-488	*	10099-74-8
Cadmium	0.00050	112.414	-	N/A	7440-43-9

Note on ISHL No.: * in the table means announced chemical substances.

Section 4: FIRST AID MEASURES**Inhalation**

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

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

Special extinguishing method

No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminant and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recovery, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE**Handling****Technical measures**

Avoid contact with alkaline substances. Avoid contact with metal. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage**Safe storage conditions****Storage conditions**

Store away from sunlight in well-ventilated place at room temperature (under 25 °C). Keep container tightly closed. Store locked up.

Safe packaging material

Polyethylene

Incompatible substances

Alkali, Metals

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Nitric Acid 7697-37-2	TWA: 2 ppm OEL TWA: 5.2 mg/m ³ OEL	N/A	STEL: 4 ppm TWA: 2 ppm

Nickel(II) oxide 1313-99-1	TWA: 0.1 mg/m ³ OEL ISHL/ACL: 0.1 mg/m ³	ISHL/ACL: 0.1 mg/m ³	TWA: 0.2 mg/m ³ Ni inhalable particulate matter
Cobalt 7440-48-4	TWA: 0.05 mg/m ³ OEL ISHL/ACL: 0.02 mg/m ³	ISHL/ACL: 0.02 mg/m ³	TWA: 0.02 mg/m ³ inhalable particulate matter
Diarsenic Trioxide 1327-53-3	ISHL/ACL: 0.003 mg/m ³	ISHL/ACL: 0.003 mg/m ³	TWA: 0.01 mg/m ³ As
Oxalic acid dihydrate 6153-56-6	N/A	N/A	TWA 1mg/m ³ , STEL 2mg/m ³
Lead(II) nitrate 10099-74-8	TWA: 0.03 mg/m ³ OEL ISHL/ACL: 0.05 mg/m ³	ISHL/ACL: 0.05 mg/m ³	TWA: 0.05 mg/m ³ Pb
Cadmium 7440-43-9	TWA: 0.05 mg/m ³ OEL ISHL/ACL: 0.05 mg/m ³	ISHL/ACL: 0.05 mg/m ³	TWA: 0.01 mg/m ³ TWA: 0.002 mg/m ³ respirable particulate matter

Personal protective equipment**Respiratory protection**

Gas mask for acidic gas (JIS T 8152)

Hand protection

chemical protective gloves (JIS T 8116)

Eye protection

protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection

Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form**Color**

slightly bluish green

Turbidity

clear

Appearance

liquid

Odor

no data available

Melting point/freezing point

no data available

Boiling point, initial boiling point and boiling range

no data available

Flammability

no data available

Evaporation rate:

no data available

Flammability (solid, gas):

no data available

Upper/lower flammability or explosive limits**Upper:**

no data available

Lower:

no data available

Flash point

no data available

Auto-ignition temperature:

no data available

Decomposition temperature:

no data available

pH

no data available

Viscosity (coefficient of viscosity)

no data available

Dynamic viscosity

no data available

Solubilities

No data available

n-Octanol/water partition coefficient:(log Pow)

no data available

Vapour pressure

no data available

Specific Gravity / Relative density

no data available

Vapour density

no data available

Particle characteristics

no data available

Section 10: STABILITY AND REACTIVITY

Stability**Reactivity**

no data available

Chemical stability	Stable under recommended storage conditions.
Hazardous reactions	Corrodes metals to generate hydrogen gas.
Conditions to avoid	Extremes of temperature and direct sunlight
Incompatible materials	Alkali, Metals
Hazardous decomposition products	Nitrogen oxides (NOx), Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nitric Acid	N/A	N/A	334 ppm (Rat) 0.5 h
Nickel(II) oxide	> 5000 mg/kg (Rat)	N/A	N/A
Ammonium Vanadate(V)	141 mg/kg (Rat,male)	>25000 mg/kg (Rat)	2.43 mg/L (Rat,mala) 4h
Cobalt	6171 mg/kg (Rat)	N/A	> 10 mg/L (Rat) 1 h
Diarsenic Trioxide	25 mg/kg (Rat)	N/A	N/A
Lead(II) nitrate	93 mg/kg (Rat)	N/A	N/A
Cadmium	1,140 mg/kg (Rat)	N/A	0.0031 mg/L (Rat)

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Nitric Acid	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Nitric Acid	Based on the NITE GHS Classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS Classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Nitric Acid	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.

Cobalt	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Nitric Acid	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Nitric Acid	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagenicity source information
Nitric Acid	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Nitric Acid	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Nickel(II) oxide 1313-99-1	Known	Group 1	A1	Group 1 Group 2B
Cobalt 7440-48-4	Reasonably Anticipated	Group 2B	A3	Group 2B
Diarsenic Trioxide 1327-53-3	Known	Group 1	A1	Group 1
Lead(II) nitrate 10099-74-8	Reasonably Anticipated	Group 2A	A3	Group 2B
Cadmium 7440-43-9	Known	Group 1	A2	Group 1

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Nitric Acid	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.

Cobalt	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Nitric Acid	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Nitric Acid	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Nitric Acid	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Nitric Acid	N/A	LC50 : <i>Gambusia affinis</i> 72 mg/L 96 h	N/A
Nickel(II) oxide	EC50: <i>Pseudokirchneriella subcapitata</i> 127.3 mg/L 72 h	LC50: <i>Brachydanio rerio</i> 100 mg/L 96 h	EC50: <i>Daphnia magna</i> >100 mg/L 48 h
Ammonium Vanadate(V)	N/A	LC50: <i>Fundulus heteroclitus</i> 13.5 mg/L 96h	N/A
Cobalt	N/A	LC50: <i>Brachydanio rerio</i> 100 mg/L 96 h	N/A
Diarsenic Trioxide	N/A	LC50: <i>Oncorhynchus mykiss</i> 18.8 - 21.4 mg/L 96 h LC50: <i>Pimephales promelas</i> 135 mg/L 96 h LC50: <i>Oncorhynchus mykiss</i> 1000 mg/L 96 h	EC50 : <i>Artemia franciscana</i> 0.257 mg/L 24 h
Oxalic acid dihydrate	N/A	N/A	EC50: <i>Daphnia magna</i> 15 mg/L 48 h
Lead(II) nitrate	N/A	N/A	LC50 : <i>Gammaridae</i> 0.124 mg/L 96 h
Cadmium	EC50 : <i>Pseudokirchneriella</i>	LC50: <i>Cyprinus carpio</i>	EC50 : <i>Daphnia magna</i>

	<i>subcapitata</i> 0.07 mg/L 72 h	0.002 mg/L 96 h LC50: <i>Oncorhynchus mykiss</i> 0.003 mg/L 96 h LC50: <i>Oryzias latipes</i> 0.016 mg/L 96 h	0.0244 mg/L 48 h
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Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Nitric Acid	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Nickel(II) oxide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ammonium Vanadate(V)	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cobalt	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Diarsenic Trioxide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Lead(II) nitrate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cadmium	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID

UN number	UN2031
Proper shipping name:	Nitric acid
UN classification	8
Subsidiary hazard class	
Packing group	II
Marine pollutant	Not applicable

IMDG

UN number	UN2031
Proper shipping name:	Nitric acid
UN classification	8
Subsidiary hazard class	
Packing group	II
Marine pollutant (Sea)	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

IATA

UN number	UN2031
Proper shipping name:	Nitric acid

UN classification	8
Subsidiary hazard class	
Packing group	II
Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act	Not applicable
Poisonous and Deleterious Substances Control Law	Poisonous Substances 1st. Grade
Industrial Safety and Health Act	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) Notifiable Substances (Law Art.57-2) Group 3 Specified Chemical Substance, (Ordinance on Prevention of Hazards Due to Specified Chemical Substances Art.2 Para.1, Item 6) Lead Compounds (Enforcement Order Attached Table 4, Ordinance on Prevention of Lead Poisoning Art.1-4, MHLW Notification No.91 of 1972)
Industrial Safety and Health Act (2024-)	【2024.4.1~】 Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
Regulations for the carriage and storage of dangerous goods in ship	Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
Civil Aeronautics Law	Corrosive Substances (Ordinance Art.194, MITL Notification for Air Transportation of Explosives etc., Attached Table 1)
Marine Pollution Prevention Law	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y
Pollutant Release and Transfer Register Law (2023.4.1-)	Not applicable
Water Pollution Control Act	Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinance Designating Wastewater Standards Art.1)
Export Trade Control Order	Not applicable
Air Pollution Control Law	Hazardous Air Pollutants
Soil Contamination Control Law	Designated Hazardous Substances

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Nitric Acid 7697-37-2 (5.0)	-	Applicable	-
Ammonium Vanadate(V) 7803-55-6 (0.023)	Applicable	-	-
Diarsenic Trioxide 1327-53-3 (0.0040)	Applicable	-	-

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)
<http://www.safe.nite.go.jp/japan/db.html>
 IATA dangerous Goods Regulations
 RTECS:Registry of Toxic Effects of Chemical Substances
 Japan Industrial Safety and Health Association GHS Model SDS
 Dictionary of Synthetic Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
 Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
 etc

Record of SDS revisions

The following contents were revised. Product and company Identification. Composition/information on ingredients. Exposure controls/personal protection. Stability and reactivity. Toxicological information. Ecological information. Regulatory information.

Disclaimer

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet