

CANON OPTRON INC.
 SDS Number: E026
 Product Name: OH-6

SAFETY DATA SHEET

rev. 8.0 Date of Issue 2013/10/16
 Revised Date 2024/3/15

SECTION 1 Chemicals and company identification

Product name	OH-6
Product code	E026
Company name	CANON OPTRON INC.
Address	1744-1, Kanakubo, Yuki-shi, Ibaraki-ken, 307-0015 Japan
Section name	Sales Department
Telephone number	+81-296-21-3700
Fax number	+81-296-21-3770
Emergency telephone number	+81-296-21-3700
Use	Vacuum deposition material

SECTION 2 Hazards identification

GHS Classification (A classification by JIS Z 7252 "classification methods such as chemical substances based on GHS")

Physical hazards	Explosives	Classification not possible
	Flammable gases	Not applicable
	Aerosols	Not applicable
	Oxidizing gases	Not applicable
	Gas under pressure	Not applicable
	Flammable liquids	Not applicable
	Flammable solids	Classification not possible
	Self-reactive substances and mixtures	Classification not possible
	Pyrophoric liquids	Not applicable
	Pyrophoric solids	Classification not possible
	Self-heating substances and mixtures	Classification not possible
	Substances and mixtures which, in contact with water, emit flammable gases	Classification not possible
	Oxidizing liquids	Not applicable
	Oxidizing solids	Classification not possible
	Organic peroxides	Classification not possible
	Corrosive to metals	Classification not possible
Health hazards	Desensitize explosives	Classification not possible
	Acute toxicity(oral)	Classification not possible
	Acute toxicity(dermal)	Classification not possible
	Acute toxicity (Inhalation: Gases)	Not applicable
	Acute toxicity (Inhalation: Vapors)	Classification not possible

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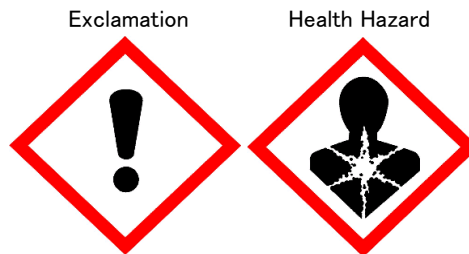
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	Acute toxicity (Inhalation: Dusts and mists)	Classification not possible
	Skin corrosion/irritation	Classification not possible
	Serious eye damage/eye irritation	Classification not possible
	Respiratory sensitization	Classification not possible
	Skin sensitization	Category 1
	Germ cell mutagenicity	Classification not possible
	Carcinogenicity	Category 2
	Reproductive toxicity	Classification not possible
	Reproductive toxicity, effects on or via lactation	Classification not possible
	Specific target organ toxicity(single exposure)	Classification not possible
	Specific target organ toxicity(repeated exposure)	Category 1
	Aspiration hazard	Classification not possible
Environmental hazards	Hazardous to the aquatic environment Short-term(acute)	Classification not possible
	Hazardous to the aquatic environment Long-term(chronic)	Classification not possible
	Hazardous to the ozone layer	Classification not possible

Label elements

hazard Pictograms



Signal word

Danger

Dangerous goods hazard information

May cause an allergic skin reaction.
 Suspected of causing cancer.
 Causes damage to organs through prolonged or repeated exposure Respiratory organs.

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Precautionary statements

【Safety measures】	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear Protective gloves/protective clothing/eye protection/face protection.
【First-aid measures】	IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Specific treatment . If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
【Storage】	Store locked up.
【Disposal】	Dispose of contents/container in accordance with national regulations.
【Other hazards】	-

SECTION 3 Composition/information on ingredients

Substance/Mixture	Mixture		
Chemical name	Zirconium oxide	Titanium oxide	Niobium
Chemical formula	ZrO2	TiO2	Nb
Concentration or concentration range	ZrO2 : 85.0-91.9% TiO2 : 8.0-12.0% Nb : 0.1-3.0% Total = 100%		
CAS No.	1314-23-4	13463-67-7	7440-03-1
TSCA Inventory	Zirconium oxide (ZrO2)	Titanium oxide (TiO2)	Niobium
EINECS number	215-227-2	236-675-5	231-113-5
Radioactive information	Radioactive substances are not used as the material. Therefore, there is no reason that ionizing radiation would be generated.		

SECTION 4 First aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse affected areas with water/shower. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: : Get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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Ingestion	Rinse mouth. Get medical advice/attention.
Most important symptoms and effects, both acute and delayed	No data available
Protection of first aiders	Rescuers, wear suitable protective equipment as the situation demands.
Special precautions for physicians	No data available

SECTION 5 Firefighting measures

Suitable extinguishing media	This product itself is not flammable.
Unsuitable extinguishing media	No data available
Specific hazards	No data available
Specific extinguishing methods	In the case of a fire in the periphery, the portable container is quickly moved to a safe place.
Special protective equipment for firefighters	Wear suitable protective equipment (gloves, glasses and a mask) in fire-fighting.

SECTION 6 Accidental release measures

Personal precautions, protective equipment, and emergency procedures	Protection equipment (specified as those in which the properties of the product are suitable) worn during operation so that airborne droplets, etc., do not adhere to the skin and dusts and gases are not absorbed.
Environmental precautions	The leakage may not directly flow into rivers or sewage.
Methods and material for containment and cleaning up	The leaked material is scooped up, or swept up and gathered to be recovered in a paper bag or a drum. After recovery, a small amount of the residue is absorbed in sediment, sawdust, etc.
Secondary disaster prevention measures	No data available

SECTION 7 Handling and storage

Precautions for safe handling	
Technical measures	Take measures for equipment as described in "8. Exposure controls/personal protection" and wear protective equipment.
Safety handling precautions	Handling work must be practiced in a room where there is a local or total ventilation facility.
Avoidance of contact	Refer to "10. Stability and reactivity."
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

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Conditions for safe storage,
 including any incompatibilities

Safe storage conditions	Store in a well-ventilated place. Keep container tightly closed. Should be stored separately (Al, Ca, Mg, K, Na, Zn, and Li) with strong acids, metals. Store locked up.
Safety packaging material	No data available

SECTION 8 Exposure controls/personal protection

	<u>ZrO2</u>	<u>TiO2</u>	<u>Nb</u>
Permissible concentration			
ACGIH	TLV-TWA: 5 mg/m ³ TLV-TWA: 10 mg/m ³ (as zirconium and compound, zirconium) (2015 version)	TLV-TWA: 10 mg/m ³ (titanium dioxide) (2016 version)	No data available
Appropriate engineering controls	Use sealed devices, equipment, or a local exhaust ventilation as much as possible.		
Individual protection measures, such as personal protective equipment			
Respiratory protection	Dustproof mask		
Hand protection	Protective gloves		
Eye/face protection	Dust-proof glasses		
Skin protection	Protective clothing		

SECTION 9 Physical and chemical properties

Appearance

Physical state	Solid
Form	Pellets, granules
Colour	Gray
Odour	None

	<u>ZrO2</u>	<u>TiO2</u>	<u>Nb</u>
Melting point/freezing point	2,680°C (Merck(15th,2013))	1855°C	2470°C
Boiling point or initial boiling point and boiling range	4300°C	2500~3000°C	4742°C
Flammability	No data available	No data available	No data available

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Upper/lower flammability or explosive limits	No data available	No data available	No data available
Flash point	Noninflammability (GESTIS (2015))	No data available	No data available
Auto-ignition temperature	Noninflammability (GESTIS (2015))	Noninflammability (HSDB (2016))	No data available
Decomposition temperature	No data available	1,860°C (GESTIS (2016))	No data available
pH	No data available	SUSPENSION IN WATER (1 IN 10) IS NEUTRAL TO LITMUS (HSDB (2016))	No data available
Kinematic viscosity	No data available	No data available	No data available
Solubility			
Water	Insoluble	Insoluble	Insoluble
Other solvents	No data available	No data available	No data available
Partition coefficient: n-octanol/water	No data available	No data available	No data available
Vapour pressure	No data available	No data available	No data available
Density and/or relative density (Density)	No data available	4.23	8.56
Relative vapor density	No data available	No data available	No data available
Particle characteristics	No data available	No data available	No data available
Other information	No data available	No data available	No data available

SECTION 10 Stability and reactivity

	ZrO₂	TiO₂	Nb
Reactivity	No data available	It is stable under the normal handling condition.	No data available
Chemical stability	No data available	It is stable under the normal handling condition.	It is stable in storage conditions and normal handling.
Possibility of hazardous reactions	No data available	Dangerous adverse reaction is not caused under the normal handling condition.	It want to generate hydrogen response to hydrofluoric acid. And chlorine, react at 200 °C or more, resulting in a niobium pentachloride. The nitrogen, the reaction was at 1000 °C or more, resulting in a nitride.

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Conditions to avoid	No data available	It avoid direct rays of the sun and keep it in the cool and dark space.	No data available
Incompatible materials	No data available	Oxidizer, reducer	No data available
Hazardous decomposition products	No data available	In the case of fires, a toxic decomposition product may occur.	No data available

SECTION 11 Toxicological information

	<u>ZrO2</u>	<u>TiO2</u>	<u>Nb</u>
Acute toxicity(oral)	No data available	For a rat LD50 price,> 2,000 mg/kg,> 5,000 mg/kg (SIDS (2015)) ,> 10,000 mg/kg (HSDB (Access on May 2016), Ministry of the Environment risk evaluation Vol. 8 (2010)) ,> 12,000 mg/kg,> 20,000 mg/kg (Ministry of the Environment risk evaluation Vol. 8 (2010)) There is a report.	Oral - Rat LD:> 10g/kg Intraperitoneal - rat LD:> 10g/kg Oral - mouse LD:> 10g/kg Intraperitoneal - mouse LD:> 10g/kg
Acute toxicity(dermal)	No data available	For an LD50 price of the hamsters,> 10,000 mg/kg (HSDB (Access on May 2016), Ministry of the Environment risk evaluation Vol. 8 (2010)) There is a report.	No data available
Acute toxicity (Inhalation: Gases)	Solid (GHS definition)	Solid (GHS definition)	If inhaled, nasal, throat is stimulated.
Acute toxicity (Inhalation: Vapours)	Solid (GHS definition)	Solid (GHS definition)	No data available
Acute toxicity (Inhalation: Dusts and mists)	No data available	Based on a report of an LC50 value for rats of > 5.09 mg/L (SIDS (2015)), it was classified as "Not classified."	No data available
Skin corrosion/irritation	No data available	From descriptions (SIDS (2015)) of slight or no irritation in skin irritation tests using rabbits, it was classified as "Not classified" (Category 3 in UN GHS classification).	No data available

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Serious eye damage/irritation

No data available

There is a report that in an eye irritation test (OECD TG 405) using rabbits, mild conjunctival redness was observed in 2 out of 3 animals 24 hours after the application, but disappeared within 48 hours, and there is a report that slight irritation was observed 24 hours after the application, but no irritation was observed after 48 and 72 hours (SIDS (2015)). The irritation observed in these tests may be thought to be due to physical stimulation, however, since the particle shape could not be confirmed, it was classified as "Classification not possible."

To give a foreign body sensation Once in the eye, it is irritating to the eyes.

Respiratory or skin sensitization

The classification is not possible due to lack of data. Besides, in DFGOT vol. 12 (1999), zirconium and its compounds are classified as a respiratory sensitizer from the information on zirconium and other zirconium compounds, but this substance was classified as "Classification not possible" due to no information on the substance. It is reported that this substance causes Granulomatous skin reactions in humans (DFGOT vol. 12 (1999)). In DFGOT vol. 12 (1999), zirconium and its compounds are classified as a sensitizer (Sah). From the above, this substance was classified in Category 1.

Both a skin sensitization test using the guinea pigs (Buehler method, OECD TG 406) and a skin sensitization test using mice (LLNA method, OECD TG 429) were negative, and it was judged that this substance doesn't have skin sensitizing potential (SIDS (2015)). Therefore, it was classified as "Not classified."

No data available

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<p>Germ cell mutagenicity</p>	<p>No data available</p>	<p>As for in vivo, it was reported that micronucleus tests using peripheral erythrocytes or bone marrow cells of mice were negative, an hprt gene mutation assay using alveolar cells of rats was positive, a chromosomal aberration test using mouse bone marrow cells and a DNA damage test in rat lungs were negative (SIDS (2015), National Institute of Advanced Industrial Science and Technology (2011), DFGOT (2014), Environmental Risk Assessment for Chemical Substances Vol. 8 (Ministry of the Environment, 2010), IARC 93 (2010)). As for in vitro, negative results were reported in all of bacterial reverse mutation tests, micronucleus tests, chromosome aberration tests, and mouse lymphoma assays using cultured mammalian cells (SIDS (2015), OEL Documentations (Japan Society For Occupational Health (JSOH), 2013), National Institute of Advanced Industrial Science and Technology (2011), IARC 93 (2010), Environmental Risk Assessment for Chemical Substances Vol. 8 (Ministry of the Environment, 2010), DFGOT (2014)). In addition, it is evaluated in SIDS (2015) that it is not possible to conclude on the genotoxicity of this substance because positive in vivo findings are not by standard tests. From the above, it was classified as "Classification not possible."</p>	<p>No data available</p>
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Carcinogenicity	<p>As described in this hazard class for zirconium (CAS number: 7440-67-7), ACGIH classified zirconium and its compounds in A4 in carcinogenicity (ACGIH (7th, 2001)). Therefore, this substance was classified as "Classification not possible" for this hazard class.</p>	<p>In a large-scale cohort study in Europe, the mild increase of the risk of the lung cancer was suggested by the occupation revelation to this material, but it was said to this material revelation and association with the carcinogenesis that the carcinogenic evidence in the Homo sapiens was restrictive in others which a dose-response relationship was not seen in in revelation group, a cohort study in the North America and the case-control study without being shown (IARC 93 (2010)) . Increase of the frequency of adenoma of the lungs and the squamous cancer was seen in a rat in one inhalational examination that came to light in the experimental animals in high density group (250 mg/m³) for two years (IARC 93 (2010), SIDS (2015)) . In addition, increase (32/100 vs. control group 1/271) of the outbreak frequency of the lung tumor (benign squamous epithelium tumor, squamous cancer, adenoma, adenocarcinoma) was seen in the revelation group, but oncogenic increase was not seen even in the examination that inhaled super finer particles (P25) of this material to a rat for two years, and came to light in the murine examination (IARC 93 (2010)) . In addition, it was admitted the frequency increase of the benign and malignant lung tumor in the intratracheal examination that It injected to lat with titanium oxide. On the other hand, the increase of tumor was not seen in a rat, a mouse in oral, subcutis, neither examination that It gave</p>	No data available
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		<p>intraperitoneally (IARC 93 (2010)) . It classified the IARC in group 2B than the above saying that there was carcinogenic enough evidence in the experimental animals (IARC 93 (2010)) . In addition, Nihon Sangyo hygiene society classifies it in second group B as a temporary classification (advice (2015) of the acceptable concentration) .</p>	
<p>Reproductive toxicity</p>	<p>No data available</p>	<p>In a reproduction/developmental toxicity screening test (OECD TG 421) using rats, no adverse effects on fertility of parental animals, survival and development up to 4 days after delivery of offspring were observed even up to at a dose of 1,000 mg/kg/day administered by gavage (SIDS (2015)). However, because this test is a screening test, it was not possible to classify this substance as "Not classified" only from this result, and there is no other data available for classification. Therefore, the classification was not possible due to lack of data.</p>	<p>No data available</p>
<p>Specific target organ toxicity(single exposure)</p>	<p>No data available</p>	<p>No data available</p>	<p>No data available</p>

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Specific target organ toxicity(repeated exposure)

As for humans, it is reported that effects on lungs were not observed in workers exposed to this substance (DFGOT vol. 12 (1999)).

On the other hand, changes in the lung (asthma, bronchitis, pneumoconiosis, sarcoid granulomatosis, granulomatous interstitial pneumonia) were reported, but it is reported that association with this substance is not clear because they were also exposed to other substances that could cause lung damage (DFGOT vol. 12 (1999)). However, there are cases where zirconium was confirmed in granulomatous lesions in the lungs of three, and extrinsic allergic alveolitis was observed just in one. It is reported that histological examination of the lungs revealed "various stages of epithelioid cell granuloma induced by foreign matter" with foreign matter inclusions in giant cells and fibrosis, and the principal component of foreign matter is zirconium, and similar changes were also found in skin, and granulomatous lesions were observed in mammary and axillary lymph nodes (DFGOT vol. 12 (1999)).

As for experimental animals, it is reported that toxic effects were not found in an inhalation toxicity test using rats, rabbits, dogs, guinea pigs, and cats (DFGOT vol. 12 (1999), ACGIH (7th, 2001)). It is also reported that in a diet administration test using rats, toxic effects were not observed (DFGOT vol. 12 (1999)).

As above, because effects

There is no information on humans.

As for experimental animals, in a 2-year inhalation toxicity test using rats, increases in leukocyte and neutrophil counts, and increase in pneumonia, tracheitis, and rhinitis with squamous metaplasia in the anterior nasal cavity were observed at 10 mg/m³ which is in the range of Category 1, and in a 24-month inhalation toxicity study using rats, lung fibrosis, minor changes in cytologic pattern in bronchoalveolar lavage fluid (BALF), a slight increase in polymorphonuclear leukocyte count, increase in macrophage and hyperplasia of the lung-associated lymph nodes were observed at 5 mg/m³ (SIDS (2015)).

Besides, as for oral route, no effects were observed even at doses corresponding to "Not classified" in 13-week or 103-week repeated dose toxicity tests using rats or mice dosed by feeding (Environmental Risk Assessment for Chemical Substances Vol. 8 (Ministry of the Environment, 2010)).

Therefore, it was classified in Category 1 (respiratory organs).

No data available

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	of this substance cannot be denied completely in humans, the substance was classified as "Classification not possible."		
Aspiration hazard	No data available	No data available	No data available
Other information	No data available		

SECTION 12 Ecological information

	<u>ZrO2</u>	<u>TiO2</u>	<u>Nb</u>
Toxicity Hazardous to the aquatic environment Short-term(acute)	No data available	From 72-hour EL50 (growth rate) > 100 mg/L for algae (Pseudokirchneriella subcapitata), 48-hour EL50 > 100 mg/L for crustacea (Daphnia magna), and 96-hour LL50 > 100 mg/L for fish (Oryzias latipes) (all SIDS, 2015), it was classified as "Not classified."	No data available
Hazardous to the aquatic environment Long-term(chronic)	No data available	Reliable chronic toxicity data were not obtained. It is poorly water-soluble (insoluble in water, ICSC, 2002), and classified as "Not classified" for acute toxicity, but due to the unknown environmental behavior of the inorganic compound, it was classified in Category 4.	No data available
Persistence and degradability	No data available	No data available	No data available
Bioaccumulative potential	No data available	No data available	No data available
Mobility in soil	No data available	No data available	No data available
Hazard to the ozone layer	No data available	No data available	No data available
Other adverse effects	No data available	No data available	No data available

SECTION 13 Disposal considerations

Waste treatment methods	Process is contracted to industrial waste disposers who received approval of a prefectural governor.
Contaminated container and contaminated packaging	The container is recycled after being cleaned, or is appropriately processed according to the standards of related laws and regulations. When disposing of empty containers, the contents should be completely removed.

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SECTION 14 Transport information

	<u>ZrO2</u>	<u>TiO2</u>	<u>Nb</u>
International regulation			
UN number	Not applicable	Not applicable	Not applicable
UN proper shipping name	Not applicable	Not applicable	Not applicable
UN classification	Not applicable	Not applicable	Not applicable
Transport hazard class	Not applicable	Not applicable	Not applicable
Packing group	Not applicable	Not applicable	Not applicable
Hazardous to the aquatic environment	No data available	No data available	No data available
Maritime transport in bulk according to IMO instruments	No data available	No data available	No data available
Japanese laws and regulations	Land regulation information Not applicable Maritime regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials	Land regulation information Not applicable Maritime regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials	Land regulation information Not applicable Maritime regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials
Special precautions for users	Requires retention of yellow card when transporting. When transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage.	When transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. Do not stack heavy good thereupon.	No data available
Special Provisions	-	-	-

SECTION 15 Regulatory information (Japan)

	<u>ZrO2</u>	<u>TiO2</u>	<u>Nb</u>
Occupational Safety and Health Law	There is it in the case of an application or an application	There is it in the case of an application or an application	There is it in the case of an application or an application
PRTR Law	Not applicable	Not applicable	Not applicable
Poisonous and Deleterious Substances control Law	Not applicable	Not applicable	Not applicable
Labor Standards Act	There is it in the case of an application or an application	There is it in the case of an application or an application	There is it in the case of an application or an application
Chemical substances control Law	Not applicable	Not applicable	Not applicable
Fire fighting Law	Not applicable	Not applicable	Not applicable

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Air Pollution Control Act	Not applicable	Not applicable	Not applicable
Water Pollution Prevention Act	Not applicable	Not applicable	Not applicable
Water Supply Act	Not applicable	Not applicable	Not applicable
Sewerage Act	Not applicable	Not applicable	Not applicable
Marine Pollution Prevention Law	Not applicable	There is it in the case of an application or an application	Not applicable
Waste Management and Public Cleansing Act	Not applicable	Not applicable	Not applicable

Note

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

SECTION 16 Other information

The Safety Data Sheet (SDS) has been prepared based on currently available materials, information and data, and may be revised based on new information. Further, the important points in the SDS are made for the purpose of normal handling.

When handling the user product in a specialized manner, take the appropriate safety measures for the application or method.

Further, Canon Optron Inc. has paid sufficient attention to the described contents of the SDS, but does not guarantee the accuracy of its contents.

The SDS prepared by our company includes all findings from our investigation for reference. Not applicable to all items listed.

Literature Reference

[WEB site]

National Institute of Technology and Evaluation Homepage
 Japan Advanced Information Center of Safety and Health Homepage
 Ministry of Health, Labour and Welfare Homepage

[Regulatory review Tools]

ezCRIC+ (Japan Chemical Database Ltd)