NIPPON NYUKAZAI CO., LTD.

SAFETY DATA SHEET

SDS: A1407-0100_E001
Date Prepared: 2020/12/09
Date Revised: 2023/01/10

Product Name: **NEWCOL LA-407**

1. Identification of the substance/mixture and of the company/undertaking

Product name:	NEWCOL LA-407
Identification of the supplier:	Nippon Nyukazai Co., Ltd.
Address:	No.4-1.Nihonbashi Kobuna-cho, Chuo-ku, Tokyo 103-0024, Japan
Charge section:	Business Operation Department (TEL:+81-3-5651-5640,FAX:+81-3-5651-5646)
Emergency telephone number:	Business Operation Department (TEL:+81-3-5651-5640,FAX:+81-3-5651-5646)
Recommend use:	Wetting/penetrating agent
Restrictions on use:	Seek expert judgment when using for purposes other than those recommended.

2. Hazards identification

Hazard category

Carcinogenicity — Category 1B

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements: H350 May cause cancer.

Precautionary statements:

Prevention: P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

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3. Composition/information on ingredients

3.1. Substances

Ingredients and Concentration

Ingredient Name	Concentration wt.%	CAS RN®	Existing and New Chemical Substances (JAPAN)	Industrial Safety and Health Law Substances (JAPAN)	Industrial Safety and Health Law (JAPAN)	Pollutant Release Transfer Register Law (JAPAN)	Poisonous and Deleterious Substances Control Act (JAPAN)
			Gazette notice reference number	Gazette notice reference number	Notifiable Substances	Specified Substances	Poisonous and Deleterious Substances
Polyoxyethylene Laurylamine	98-100	31017-83-1	7-60	Public	Not applicable	Not applicable	Not applicable
1,4-Dioxane	0.5-0.6	123-91-1	5-839	Public	Applicable	Less than regulation	Not applicable
Acetaldehyde	0.1	75-07-0	2-485	Public	Applicable	Less than regulation	Not applicable

3.2. Mixtures

Not Applicable

4. First aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If breathing is stopped, lie on your back and perform cardiopulmonary respiration.
Get medical advice/attention.

Skin contact: Take off contaminated clothing and wash before reuse.
Wash with plenty of soap and water.
If skin irritation or a rash occurs: Get medical advice/attention.

Eye contact: Immediately flush eye with plenty of clean water for at least 15 minutes. (If easy to do, remove contact lenses, if worn.) Get medical attention immediately.

Ingestion: After having swallowed it, Drink a large quantity of water when consciousness becomes clear and receive treatment for the doctor immediately.
A mouth must not give a person without the consciousness a thing.

Protection for first aid person: The rescuer wears a tool for appropriate protection depending on the situation.

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5. Firefighting measures

Suitable extinguishing media:	Use water spray(fog), foam, dry chemical or CO2.
Extinguishing media to avoid:	Straight stream water.
Specific hazards arising from the chemical:	At the time of fire, hazardous gases (carbon monoxide,NOx and others) can be generated.
Fire fighting:	Keep upwind of fire. Eliminate all ignition sources if safe to do so. In case of fire in the surroundings, move the content/container to the safety place. If it is not possible to move, cool the content/container with water spray.
Special protective equipment and precautions for fire fighters:	Gloves, protection glasses, wear fire,flame resistant,retardant clothing, air respiratory organs wear a tool for appropriate protection.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Promptly remove possible ignition sources from the vicinity. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental precautions:	To environment (area of the sea, the soil) must not release it.
Methods and materials for containment and cleaning up:	Absorb this product with inactive materials (example: dry sand, earth) and recover it into a waste material container. In the case of large amount, stop leakage with earth/sand to begin with, and, then, recover it. In the case of a small quantity, I adsorb it in the earth and sand, a waste and collect it in empty container which I can seal up after having removed it.

7. Handling and storage

Handling

Technical measures:	During handling, be sure to wear proper protective equipment (refer to the section 8). This product can be charged with static electricity. Take countermeasures for static electricity removal (grounding, others). Wear antistatic clothes and antistatic shoes to prevent human body electrification. Use explosion-proof electrical/ventilating/lighting equipment.
Ventilation requirements:	Use the ventilation equipment described in Section 8.
Precautions for safe handling:	Not especially.

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Storage

Storage conditions:	Store the containers avoiding direct sunlight. Store in less than 40℃ in a well-ventilated room.
Safety adequate container materials:	Use the container specified by the Fire Service ACT and the United Nations Transport Regulations.

8. Exposure controls/personal protection

Appropriate engineering controls: Use local ventilation equipment.
Install eye and body washing facilities near the handling place.
Display the position of equipment clearly.

Control parameters

Ingredient Name	Industrial Safety and Health Law (JAPAN)	Japan Society for Occupational Health	ACGIH-TLV	
	Administrative Control Levels	Occupational Exposure Limits	TWA	STEL
Polyoxyethylene Laurylamine	Not established	Not established	Not established	Not established
1,4-Dioxane	10ppm -mg/m3	1ppm Skin, 3.6mg/m3 Skin	20ppm Skin, -mg/m3	Not established
Acetaldehyde	Not established	50ppm Ceiling limit, 90mg/m3 Ceiling limit	Not established	25ppm Ceiling limit, -mg/m3

Personal protective equipment

Respiratory protection:	Use a gas mask for organic gases, air-supplied respirator, self - contained compressed air breathing apparatus on the situation.
Hand protection:	Organic solvent impermeable protective gloves (Antistatic ones are desirable.)
Eye/face protection:	Protective glasses, goggle, protective face shield.
Skin/body protection:	Wear long-sleeved working clothes and protective shoes.(Antistatic ones are desirable.) Use an oiliness apron-resistant, boots depending on the situation.
Hygiene measures:	Wash with soap and water after handling.

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9. Physical and chemical properties

Product

Form:	Liquid（20℃）
Color:	No data
Odor:	No data
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flammability (solid, gas):	No data
Upper/lower flammability or explosive limits:	No data
Flash point:	242(℃)（Cleveland Open Cup）
Auto-ignition temperature:	No data
Decomposition temperature:	No data
pH:	10－11(1%aq.)
Kinematic viscosity:	No data
Solubility:	water : Soluble. methanol : Soluble. acetone : Soluble. xylene : Soluble. ether : Soluble.
Partition coefficient: n-octanol/water:	No data
Vapour pressure:	No data
Specific Gravity:	1.00(20℃)
Vapour density:	No data
Particle characteristics:	No data

10. Stability and reactivity

Chemical stability:	Stable under normal temperatures and pressures.
Possibility of hazardous reactions:	It may react with the oxidizing agent and generate heat.
Conditions to avoid:	Avoid heat, flames, sparks and ignition sources.
Incompatible materials:	Acid, Oxidizing agents.
Hazardous decomposition products:	No data available

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11. Toxicological information

Product

Acute toxicity (oral):	Classification not possible
Acute toxicity (dermal):	Classification not possible
Acute toxicity (inhalation):	Classification not possible (Gas) Classification not possible (Vapour) Classification not possible (Dust/Mist)
Skin corrosion/irritation:	Classification not possible
Serious eye damage/irritation:	Classification not possible
Respiratory sensitization:	Classification not possible
Skin sensitization:	Classification not possible
Mutagenicity:	Classification not possible
Carcinogenicity:	Category 1B
Reproductive toxicity:	Classification not possible
Target organ effect/Single exposure:	Classification not possible
Target organ effect/Multi exposure:	Classification not possible
Respiratory toxic:	Classification not possible

Ingredient

Polyoxyethylene Laurylamine

No Data

1,4-Dioxane

Acute toxicity (oral):	No Classification LD50: 4200-7339 mg/kg[rat]
Acute toxicity (dermal):	No Classification LD50: 2100 mg/kg[rat]
Acute toxicity (inhalation):	Exempt classification (Gas) Category 4 (Vapour) LC50: 9158-14236 ppm[rat] Classification not possible (Dust/Mist)
Skin corrosion/irritation:	Category 2 Effect on animals : Based on results of "moderately irritating" in a rabbit skin irritation test (open Draize test) (Hazard Assessment Report (CERI, NITE) (2006)) and "slightly irritating" in a rabbit, rat and mouse skin irritation tests (EU-RAR No. 21 (2002)), the substance was classified into Category 2.

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Serious eye damage/irritation:	Category 2A Effect on person : not entered, Although obvious positive reactions are reported for exposed humans, there is no report of corrosive (Hazard Assessment Report (CERI, NITE) (2006), EU-RAR No. 21 (2002)). Effect on animals : In a rabbit eye irritation test, "severe chemosis, slight corneal opacity and conjunctival redness (conjunctival redness persisted to day 8 in one animal)" were observed (EU-RAR No. 21 (2002)). Based on the data, the substance was classified into Category 2A.
Respiratory sensitization:	Classification not possible Effect on person : No data available
Skin sensitization:	Classification not possible Effect on person : in human patch tests , positive results are reported (EU-RAR No. 21 (2002), NICNASPEC No. 7 (1998)). Effect on animals : In a guinea pig skin sensitizing test (Directive 84/449/EEC, B.6) (GLP), a negative result is reported (EU-RAR No. 21 (2002), original literature BASF (1993)). Based on the above reports, classification was not possible.
Mutagenicity:	No Classification Although there are positive and negative results in micronucleus test by oral gavage to mice (ATSDR (2007), Hazard Assessment Report (CERI, NITE) (2006), NICNAS No. 7 (1998)), the substance was classified as "Not classified" based on expert's decision for reliability of the test. There are reports of positive rat hepatic cell DNA damage test, DNA synthesis test and DNA repair test (Hazard Assessment Report (CERI, NITE) (2006), NICNAS No. 7 (1998), PATTY (5th, 2001)) and negative Ames test, mouse lymphoma test and chromosomal aberration test (Hazard Assessment Report (CERI, NITE) (2006)).
Carcinogenicity:	Category 1B ACGIH:A3, EPA:Likely to be carcinogenic to humans, IARC:2B, NTP:R, Japan Society for Occupational Health:2B

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Reproductive toxicity:	Classification not possible In developmental toxicity tests in rats by oral administration (Hazard Assessment Report (CERI, NITE) (2006)) or inhalation exposure (Initial Environmental Risk Assessment of Chemicals (Ministry of the Environment) vol. 2 (2003)) during the organogenesis period, no adverse effects on fetal development were seen while decreased fetal weight and delayed ossification were observed in some tests. However, classification was not possible due to lack of data for sexual function and fertility.
Target organ effect/Single exposure:	Category 1(central nerve system) Category 3(anesthetic action,respiratory tract irritation) Based on findings of dizziness, sleepiness and unconsciousness in humans following inhalation exposure (Initial Environmental Risk Assessment of Chemicals (Ministry of the Environment) vol. 2 (2003)), the substance was classified into Category 1 (central nervous system). Narcotic effects are reported in rats following inhalation at 155 mg/L (EU-RAR 21 (2002)) and rabbits following oral exposure at 6600 mg/kg (ATSDR (2007)). The substance was classified into Category 3 (narcotic effects). The substance is irritating to the nose and throat in humans (EU-RAR 21 (2002), ATSDR (2007)). In an inhalation test in rats, irritation of mucous membranes of the respiratory tract was observed (EU-RAR 21 (2002)). Based on these results, the substance was classified into Category 3 (respiratory tract irritation).

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Target organ effect/Multi exposure:	Category 1(kidney,liver,central nerve system) Category 2(respiratory apparatus) In a case report of 5 workers who died following exposure to the substance, hemorrhage and necrosis in the kidney and necrosis in the liver are reported (Hazard Assessment Report (CERI, NITE) (2006)). There is a case report that a worker who had been exposed for one week in a closed, non ventilated room without respiratory equipment showed hypertonia, neurological symptoms, kidney failure, renal cortex necrosis, severe centrilobular necrosis in the liver and demyelination and partial loss of nerve fibre tissue in the brain (EU-RAR No. 21 (2002)). Based on the data, the substance was classified into Category 1 (kidney, liver, central nervous system). In a 2-year oral test in rats, degeneration of airway epithelium was observed at 16 mg/kg/day (corresponds to Category 2) (Initial Environmental Risk Assessment of Chemicals (Ministry of the Environment) vol. 2 (2003)). Based on this data, the substance was classified into Category 2 (respiratory system).
Respiratory toxic:	Classification not possible Effect on person：No data available.

Acetaldehyde

Acute toxicity (oral):	Category 4 LD50: 660-1930 mg/kg[rat]
Acute toxicity (dermal):	Category 3 LD50: 640 mg/kg[rat]
Acute toxicity (inhalation):	Exempt classification (Gas) Category 4 (Vapour) LC50: 7142-13300 ppm[rat] Classification not possible (Dust/Mist)
Skin corrosion/irritation:	No Classification Mild [rabbit] Effect on animals：Because it is reported that slight irritation was observed after the application of 500 mg this substance in a skin irritation test using rabbits (ACGIH (7th, 2001)), it was classified as "Not classified" (Category 3 in UN GHS classification).
Serious eye damage/irritation:	Category 2A Severe [rabbit] Effect on animals：Because it is reported that in an eye irritation test using rabbits, severe irritation was observed after 40 mg this substance was applied (ACGIH (7th, 2001)), it was classified in Category 2A.

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Respiratory sensitization:	Classification not possible Effect on person : Due to lack of data, the classification is not possible.
Skin sensitization:	Category 1 Effect on person : It is reported that in two patch tests in humans, sensitization was observed (IUCLID (2000)). Moreover, contact allergy was reported in the textile industry (FROSCH, TEXTBOOK OF CONTACT DERMATITIS), and it is written that this substance is a contact allergen (PATTY (6th, 2012)). From the above, it was classified in Category 1.
Mutagenicity:	Category 2 As for in vivo, it is reported that a micronucleus test in mouse spermatids after intraperitoneal administration was negative, a micronucleus test in rat bone marrow cells, peripheral blood erythrocytes, mouse bone marrow cells after intraperitoneal administration was positive, a chromosomal aberration test in rat embryo cells after intra-amniotic administration on day 13 of gestation and a chromosomal aberration test in rats (details unknown) were positive, and a sister chromatid exchange test in mouse bone marrow cells and Chinese hamster bone marrow cells after intraperitoneal administration was positive. (Initial Risk Assessment, NITE (2007); IARC 71 (1999); CEPA (2000); ACGIH (7th, 2001)) As for in vitro, a bacterial reverse mutation test was negative, and a mouse lymphoma test, an HPRT gene mutation test, a micronucleus test, a chromosomal aberration test, and a sister chromatid exchange test in cultured mammalian cells were all positive. (Initial Risk Assessment, NITE (2007); IARC 71 (1999); CEPA (2000)) From the above, due to positive in vivo somatic cell mutagenicity test and in vivo somatic cell genotoxicity test, a negative in vivo germ cell mutagenicity test, no in vivo germ cell genotoxicity test data, and a positive in vitro mutagenicity test result, the substance was classified in Category 2.
Carcinogenicity:	Category 1B ACGIH:A2, EPA:B2, EU, IARC:2B, NTP:R, Japan Society for Occupational Health:2B

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Reproductive toxicity:	Category 1B As reproductive toxicity effects in humans, there is no report on direct exposure to this substance. As for experimental animals, it is written that in a teratogenicity test in pregnant mice in intravenous injection of this substance (about 31, 62 mg/kg/day) on day 7 to 9 of gestation, a dose-dependent increase in resorptions, decreased fetal weight, and an increased incidence of malformations such as exencephaly and neural tube closure anomalies were observed in fetuses (Initial Risk Assessment, NITE (2007); PATTY (6th, 2012)), and that in a test in pregnant rats in intraperitoneal injection on day 10 to 12 of gestation, increased resorptions, decreased fetal weight, decreased crown-rump length and tail length, and increased malformations (digital anomalies, cranial and facial malformations) were found (ACGIH (7th, 2001)). It is written that also in a test in pregnant rats in oral administration, skeletal malformations were also found in fetuses (Initial Risk Assessment, NITE (2007)), and it is written that fetal malformations were found in rats and mice treated with this substance in vivo and in vitro (IARC 71 (1999)). From the above, it is thought that exposure to this substance in pregnant animals during an organogenetic period surely induces malformations. Besides, in a recent report, in an experiment in which ethanol and aldehyde were added in an in vitro culture test system using marketed cell line of "trophoblast" which is said to be differentiated into the placenta, cellular proliferation was depressed in all groups added, and groups with aldehyde showed apoptosis as well. The authors hypothesized that exposure to either ethanol or acetaldehyde in pregnant women could become pathogenesis of fetal alcohol spectrum disorder by reducing placental growth (Lui, S. et al., PLoS One, 2014 Feb 4;9 (2): e87328 (2014)). As above, malformation induction by this substance is apparent in experimental animals. Although teratogenicity in humans is unknown, because this substance is suspected as a causative substance of fetal alcohol spectrum disorder in humans, a research study is being conducted as above. Therefore, the substance was classified in Category 1B in this hazard class.

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Target organ effect/Single exposure:	Category 1(central nerve system,respiratory apparatus) Category 3(anesthetic action) This substance is irritating to the respiratory tract (Initial Risk Assessment, NITE (2007); Result of the initial environmental risk assessment of chemicals, Vol. 1, Ministry of the Environment in Japan (2002); Rationale for setting the Recommendation of Acceptable Concentration of the Japan Society for Occupational Health (1990); ACGIH (7th, 2001); EHC 167 (1995); IARC 36 (1985); PATTY (6th, 2012); CEPA (2000); DFGOT vol. 3 (1992)). In human poisoning cases, headache, cough, bronchitis, pulmonary edema, coma, central nervous system depression (narcotic effects), decreased heart rate and respiratory rate, motor paralysis, and death in inhalation, and cough, pulmonary edema, lung necrosis, and central nervous system depression in dermal exposure were observed, and convulsions and death were found at the high doses (Initial Risk Assessment, NITE (2007); Result of the initial environmental risk assessment of chemicals, Vol. 1, Ministry of the Environment in Japan (2002); Rationale for setting the Recommendation of Acceptable Concentration of the Japan Society for Occupational Health (1990); ACGIH (7th, 2001); EHC 167 (1995); IARC 36 (1985); PATTY (6th, 2012); CEPA (2000); DFGOT vol. 3 (1992)). As for experimental animals, the following was reported in rats (Initial Risk Assessment, NITE (2007); Result of the initial environmental risk assessment of chemicals, Vol. 1, Ministry of the Environment in Japan (2002); Rationale for setting the Recommendation of Acceptable Concentration of the Japan Society for Occupational Health (1990); ACGIH (7th, 2001); EHC 167 (1995); IARC 36 (1985); CEPA (2000)): central nervous system depression, decreased respiratory rate, increased heart rate, increased blood pressure, pulmonary edema, and proteinuria in oral (the dose corresponding to Category 2) and dermal (the dose corresponding to Category 1); and narcotic effects, clouding of consciousness, bronchitis, and pulmonary edema in inhalation (the dose corresponding to Category 1). From the above, because this substance has mainly respiratory tract irritation, effects on the central nervous system, narcotic effects, effects on respiratory organs, it was classified in Category 1 (central nervous system, respiratory system), Category 3 (narcotic effects).

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Target organ effect/Multi exposure:	Category 1(respiratory apparatus) As for humans, "erythema, cough, pulmonary edema, narcotic effects" (ACGIH (7th, 2001)), "headache, narcotic effects, paralysis, decreased respiratory rate, irritation to respiratory organs, bronchitis, pulmonary edema" (CEPA (2000)) were listed, but all of these describe effects of single exposure. As for experimental animals, in a 4-week inhalation toxicity test using rats, degeneration of the nasal mucosa was observed at 400 ppm (converted to a Guidance value equivalent: 0.16 mg/L) within a range of Category 1 (Initial Risk Assessment, NITE (2007); ACGIH (7th, 2001); EHC 167 (1995)), and in a 5-week inhalation toxicity test using rats, hyperplasia of the olfactory epithelium, inflammation of the nasal mucosa, increased residual volume and functional residual capacity, damage of the distal airways in lung function tests were found at 243 ppm (converted to a Guidance value equivalent: 0.16 mg/L) within a range of Category 1 (Initial Risk Assessment, NITE (2007); EHC 167 (1995)). Besides these, in a 52-week inhalation toxicity test using rats, degeneration of the olfactory epithelium and replacement of olfactory epithelium by respiratory epithelium were observed at 750 ppm (1.37 mg/L) or higher, a range above Category 2, and in a 90-day inhalation toxicity test using hamsters, stratified respiratory epithelium was found at 1,340 ppm (0.435 mg/L) within a range of Category 2 (IRIS (1998), ACGIH (7th, 2001)). From the above, the substance was classified in Category 1 (respiratory system).
Respiratory toxic:	Classification not possible Effect on person : The classification is not possible due to lack of data.

12. Ecological information

Product

Ecotoxicity	
Acute toxicity:	Classification not possible
Chronic toxicity:	Classification not possible
Persistence and degradability :	No information.
Bioaccumulative potential :	No information.
Mobility in soil:	No information.
Hazardous to the ozone layer:	Classification not possible
Other impact :	No information.

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Ingredient
Polyoxyethylene Laurylamine
Ecotoxicity
Acute toxicity: No data
Chronic toxicity: No data
1,4-Dioxane
Ecotoxicity
Acute toxicity: No Classification
Fish: 96hrLC50:> 100 mg/L[Oryzias latipes]
Daphnia: 48hrEC50:> 1000 mg/L[Daphnia magna]
Algae: 72hrErC50:> 1000 mg/L[Pseudokirchneriella subcapitata]
Chronic toxicity: No Classification
Fish: No data
Daphnia: No data
Algae: No data
Persistence and degradability : Not biodegradable
Bioaccumulative potential : Low bioconcentration
Hazardous to the ozone layer: Classification not possible
Acetaldehyde
Ecotoxicity
Acute toxicity: Category 3
Fish: No data
Daphnia: 96hrLC50: 27.4 mg/L[Americamysis bahia]
Algae: 72hrErC50: 26 mg/L[Pseudokirchneriella subcapitata]
Chronic toxicity: No Classification
Fish: No data
Daphnia: No data
Algae: 72hrNOEC: 1.9 mg/L[Pseudokirchneriella subcapitata]
Persistence and degradability : Rapidly biodegradable
Bioaccumulative potential : Low bioaccumulation
Hazardous to the ozone layer: Classification not possible

13. Disposal considerations

Disposal methods: When waste materials and waste water are to be treated, collect them into specified containers and entrust the disposal to a disposal contractor having an industrial waste disposal contractor permit.
Do not use the used containers for other purposes like filling other substances. Be sure to dispose of them after treating the content according to the above description. In case of recycling the container, return the container as it is after fitting a stopper without filling anything into it.

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14. Transport information

International regulations	UN classification :	Not applicable
	UN number :	Not applicable
	Proper shipping name :	Not applicable
	Packing	Not applicable
Domestic restriction:		Transport the material in accordance with the regulations in your country or region.
Specific security precaution and condition of transportation:		Load the containers in such a way as not to wet with water,fall down, tumble, or being damaged. Cover the loaded cargo to prevent direct sunlight.
Emergency Response Guide (ERG) Numbers:		171

15. Regulatory information

Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.

16. Other information

Reference	Information obtained in NITE (National Institute of Technology and Evaluation) and other literature surveys.
Disclaimer	About the description: This SDS was created in accordance with JIS Z 7253 based on the materials and data available at the time of creation. Detailed information such as composition and ingredients corresponding to overseas legal regulation registration confirmation etc. may not be described, so please contact our sales staff separately if necessary. Precautions are for normal handling. In case of special handling, it is the responsibility of the user to take safety measures suitable for the intended use and usage. We have paid close attention to the contents, but we do not guarantee the contents. This product can only be used for industrial purposes. If you want to use it for other purposes, please contact us in advance.