

SAFETY DATA SHEET

SDS: A2110-1000_E001

Date Prepared: 2019/10/28

Date Revised: 2023/01/10

Product Name: **NEWCOL 1020-SN**

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

Product name:	NEWCOL 1020-SN
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 , blowing agent , Emulsifier/dispersant , Emulsion
Restrictions on use:	Seek expert judgment when using for purposes other than those recommended.

2. Hazards identification

Hazard category

Toxic to reproduction	Category 1B
Specific target organ systemic toxicity following single exposure	Category 2
Specific target organ systemic toxicity following repeated exposure	Category 2

Label elements

Hazard pictograms:



Signal word: **Danger**

Hazard statements: H360 May damage fertility or the unborn child.
H371 May cause damage to organs (central nerve system,organ of vision,general systemic toxicant).
H373 May cause damage to organs (central nerve system,organ of vision) through prolonged or repeated exposure.

Precautionary statements:

Prevention P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands and face thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response P314 Get medical advice/attention if you feel unwell.
P308+P313 IF exposed or concerned: Get medical advice/attention.

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P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor/healthcare professionals under the supervision of a doctor.

Storage P405 Store locked up.

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

3. Composition/information on ingredients

3.1. Substances Not Applicable

3.2. Mixtures

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 2-ethylhexyl ether sulfate sodium salt	40	73665-22-2	7-155	Public	Not applicable	Not applicable	Not applicable
Water	58	7732-18-5	---	Public	Not applicable	Not applicable	Not applicable
Methanol	2	67-56-1	2-201	Public	Applicable	Not applicable	Less than regulation

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.

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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.

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 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.

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7. Handling and storage

Handling

Technical measures: During handling, be sure to wear proper protective equipment (refer to the section 8).

Ventilation requirements: Use the ventilation equipment described in Section 8.

Precautions for safe handling: Not especially.

Storage

Storage conditions: Store the containers avoiding direct sunlight. Store in less than 40°C 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 2-ethylhexyl ether sulfate sodium salt	Not established	Not established	Not established	Not established
Methanol	200ppm -mg/m ³	200ppm Skin, 260mg/m ³ Skin	200ppm Skin, -mg/m ³	250ppm Skin, -mg/m ³

Personal protective equipment

Respiratory protection: Use a gas mask for organic gases, air-supplied respirator, self-contained compressed air breathing apparatus on the situation.

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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.)
Hygiene measures:	Use an oiliness apron-resistant, boots depending on the situation. Wash with soap and water after handling.

9. Physical and chemical properties

Product

Form:	Liquid (20°C)
Color:	Colorless~Yellow
Odor:	Slight peculiar odor
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:	No detection
Auto-ignition temperature:	No data
Decomposition temperature:	No data
pH:	7.5(10%aq.)
Viscosity:	50(mPa · s)(25°C)
Kinematic viscosity:	No data
Solubility:	water : Soluble.
Partition coefficient: n-octanol/water:	No data
Vapour pressure:	No data
Specific Gravity:	1.08(20°C)
Vapour density:	No data
Particle characteristics:	No data

10. Stability and reactivity

Chemical stability:	Stable under normal temperatures and pressures.
Possibility of hazardous reactions:	No data available

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Conditions to avoid: No data available
 Incompatible materials: No data available
 Hazardous decomposition products: No data available

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:	Classification not possible
Reproductive toxicity:	Category 1B
Target organ effect/Single exposure:	Category 2(central nerve system,organ of vision,general
Target organ effect/Multi exposure:	Category 2(central nerve system,organ of vision)
Respiratory toxic:	Classification not possible

Ingredient

Polyoxyethylene 2-ethylhexyl ether sulfate sodium salt

No Data

Methanol

Acute toxicity (oral):	Category 4 LD50: 1400 mg/kg[human], LD50: 6200-9100 mg/kg[rat]
Acute toxicity (dermal):	No Classification LD50: 15800 mg/kg[rabbit]
Acute toxicity (inhalation):	Exempt classification (Gas) No Classification (Vapour) LC50:> 31500 ppm[rat] Classification not possible (Dust/Mist)
Skin corrosion/irritation:	Classification not possible Effect on animals : Although there is an unpublished report that when applied to the skin of rabbits under occlusive conditions for up to 20-hour the substance was not irritating (DFGOT vol. 16 (2001)), classification was not possible due to lack of data in a skin irritation test.

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Serious eye damage/irritation:	Category 2 Effect on animals : In a rabbit Draize test, mean scores of conjunctivitis were judged to be 2 and higher (2.1) at 24, 48 and 72-hour after installation. Chemosis (score of 2.00) observed up to 4-hour had decreased significantly by 72-hour (score of 0.50) (EHC 196 (1997)). Since it is not clear whether the effects reversed within 7 days, sub-categorization was not performed. Based on the data, the substance was classified into Category 2.
Respiratory sensitization:	Classification not possible Effect on person : No data available.
Skin sensitization:	No Classification Effect on person : not entered, Effect on animals : Based on a result of "not sensitizing" in a guinea pig skin sensitizing test (Magnusson-Kligman maximization test) (EHC 196 (1997)), the substance was classified as "Not classified".
Mutagenicity:	No Classification Based on negative results in mouse erythrocyte micronucleus tests (in vivo somatic cell mutagenicity tests) by inhalation exposure (EHC 196 (1997)) and by intraperitoneal administration (DFGOT vol. 16 (2001), PATTY (5th, 2001)), the substance was classified as "Not classified".
Carcinogenicity:	Classification not possible In unpublished tests conducted by The New Energy Development Organization (NEDO) in Japan, no evidence of carcinogenicity was found in rats, mice or monkeys (EHC 196 (1997)). There is a report that there was a significant dose-response relationship for male and female rats for carcinomas of the head and neck and for females only hemolymphoreticular neoplasms when the substance was administered to rats in drinking water from 8-weeks until spontaneous death occurred (ACGIH (2009)). Determining tumors after spontaneous death is not comparable to the standard procedure, therefore, the evaluation or comparison is considered to be difficult. Based on the above information, classification was not possible.

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Reproductive toxicity:

Category 1B

In a developmental toxicity test by inhalation exposure to mice during organogenesis period, fetal resorptions and exencephaly were observed (PATTY (5th, 2001)). Additionally, similar effects including cleft palate were reported in other inhalation and oral exposure tests (EHC 196 (1997), DFGOT vol. 16 (2001)). For effects of methanol on reproduction, scientific decisions concerning health risks are generally based on what is known as "weight-of-evidence" approach. Recognizing the lack of human data and the clear evidence of laboratory animal effects, it was concluded that methanol may adversely affect human development if exposures are sufficiently high (NTP-CERHR Monograph (2003)). Based on the information, the substance was considered to be a presumed human reproductive toxicant and was classified into Category 1B.

Target organ effect/Single exposure:

Category 1(central nerve system,organ of vision,general systemic toxicant)

Category 3(anesthetic action)

The symptoms of acute poisoning from the substance include CNS-depression. Formate accumulates in the blood during a latency period which leads to metabolic acidosis, visual impairment or even total blindness, headaches, dizziness, nausea, vomiting, Kussmaul breathing and coma. In some cases death is the final outcome (DFGOT vol. 16 (2001), EHC 196 (1997)). Further, CNS disorders, especially parkinsonism-like extrapyramidal symptoms were reported (DFGOT vol. 16 (2001)). Morphological changes, necrosis in the white substance of the brain were demonstrated (DFGOT vol. 16 (2001)). Based on the human information, the substance was classified into Category 1 (central nervous system). Additionally, the eye was regarded as a target organ since visual impairment is a characteristic effect. Additionally, systemic toxicity is regarded as a target organ based on the reports of headache, nausea, vomiting, tachypnea and coma as signs of metabolic acidosis. The effects of single exposures by inhalation include narcosis (EHC 196 (1997), PATTY (5th, 2001)). As an acute toxicity in humans, a narcotic effect results from central nervous system depression (PATTY (5th, 2001)). Based on the data, the substance was classified into Category 3 (narcotic effects).

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Target organ effect/Multi exposure: Category 1(central nerve system,organ of vision)
 Based on a report that the most noted health consequence of longer-term exposure to lower levels of methanol is a broad range of ocular effects (EHC 196 (1997)), and that cases of chronic poisoning from occupational exposure to methanol were manifested by bilateral blindness (ACGIH (7th, 2001)), the substance was classified into Category 1 (eye). Additionally, based on the report that cases of chronic poisoning from repeated exposure to methanol vapour are manifested by headache, giddiness, insomnia, and gastric disturbances (ACGIH (7th, 2001)), the substance was classified into Category 1 (central nervous system). There are reports that changes in liver weight and hepatocellular hypertrophy were observed in rat oral administration tests (PATTY (5th, 2001), IRIS (2005)), however, these findings are considered to be adaptive changes and were not used as the basis of classification.

Respiratory toxic: Classification not possible
 Effect on person : No data available

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.

Ingredient

Polyoxyethylene 2-ethylhexyl ether sulfate sodium salt

Ecotoxicity	
Acute toxicity:	No data
Chronic toxicity:	No data

Methanol

Ecotoxicity	
Acute toxicity:	No Classification
Fish:	96hrLC50: 15400 mg/L[Lepomis macrochirus]
Daphnia:	96hrLC50: 1340 mg/L[Penaeus aztecus]
Algae:	No data

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Chronic toxicity:	No Classification
Fish:	No data
Daphnia:	No data
Algae:	No data
Persistence and degradability :	Readily biodegradable
Bioaccumulative potential :	No data
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.

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.

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16. Other information

Reference	Information obtained in NITE (National Institute of Technology and Evaluation) and other literature surveys.
Disclaimer	<p>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.</p> <p>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.</p> <p>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.</p> <p>We have paid close attention to the contents, but we do not guarantee the contents.</p> <p>This product can only be used for industrial purposes. If you want to use it for other purposes, please contact us in advance.</p>