Safety Data Sheets

1. Identification

Product Name	: UVink LUS-200 White
Order No.	: LUS20-W-BA
Ink Ver.	:1
General Use	: Ink for ink jet printer
Product Description	: UV curable ink
SDS Number	: 037-U100249
Manufacture	
Company Name	: Mimaki Engineering Co., Ltd.
Address	: 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone No.	: +81-268-64-2413
Importer / Distributor Established in USA	
Company Name	: MIMAKI USA, INC.
Address	: 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A.
Telephone No.	: +1-678-730-0100
Emergency Telephone No.	: +81-268-64-2281

2. Hazards Identification

[GHS Classification]

Physical Hazards

None

Health Hazards

Skin Corrosion / Irritation	: Category2
Eye Damage / Irritation	: Category2A
Sensitization – Skin	: Category1
Carcinogenicity	: Category2
Toxic to Reproduction	: Category2
Specific Target Organ Toxicity (Repeated Exposure)	: Category2

Environmental Hazards

Hazardous to the Aquatic Environment - Acute Hazard	: Category1

Safety Data Sheets

The above list does not include category being non-classifiable or not-applicable.

[GHS Label Elements]

Symbol

Signal Word

Warning

Hazard Statements

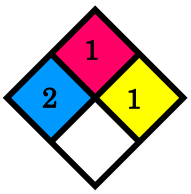
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs<respiratory system> through prolonged or repeated exposure
H400	Very toxic to aquatic life

Precautionary Statements

[Prevention]	
P201	Obtain SDS (Safety Data Sheet) and printer's manual 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 eyes thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
[Response]	
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see 4-Response on our website/SDS URL: www.mimaki.co.jp/msds).
P391	Collect spillage.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
[Disposal]	
P501	Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

NFPA Rating (scale 0 – 4)

Health = 2
Flammability = 1
Instability =1
Special = None



3. Composition / Information on Ingredients

Chemical name	Wt%	CAS No.	Chemical formula
PHENOXY ETHYL ACRYLATE	10 -30	48145-04-6	
ISOBORNYL ACRYLATE	10 -30	5888-33-5	
TETRAHYDROFURFURYL ACRYLATE	5 -15	2399-48-6	
TITANIUM DIOXIDE	5 -15	13463-67-7	
ALIPHATIC URETHANE ACRYLATE	1 -10	Trade Secret	
SUBSTITUTED AMINE OLIGOMER	1 -10	Trade Secret	
VINYL MONOMER	1 -10	2235-00-9	
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	1 -10	75980-60-8	
ACRYLIC MONOMER	1 -10	Trade Secret	
TREATMENT MATERIAL FOR TITANIUM DIOXIDE	< 1.5	Trade Secret	
STABILIZER	< 1.5	Trade Secret	
DISPERSANT	< 1.5	Trade Secret	
SILICA	< 1.5	7631-86-9	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation : Remove person to fresh air. If you feel unwell, get medical attention.

Skin and eye contact

Skin : Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get

medical attention.

Eye : Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

Ingestion : Rinse mouth. If you feel unwell, get medical attention.

Most important symptoms/effects, acute and delayed.

: See Section 11. Information on Toxicological effects.

Indication of immediate medical attention and special treatment required.

: Not applicable

5. Fire Fighting Measures

Suitable extinguishing media

: In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

Specific hazards arising from the substance or mixture

: Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

Special protective equipment and precautions for fire-fighters.

: No unusual fire or explosion hazards are anticipated.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

: Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal

protective equipment.

Environmental precautions

: Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

Methods and materials for containment and cleaning up

: Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

7. Handling and Storage

Precautions for safe handling

: For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators…) as required.

Conditions for safe storage, including any incompatibilities

: Keep container tightly closed to prevent loss of stabilizing materials. Store away from oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Limit Values

Chemical Name	CAS No.	Agency	Limit type*	Additional Comments
TITANIUM DIOXIDE	13463-67-7	Amer Conf of Gov. Indust. Hyg.	TWA:10 mg/m3	
TITANIUM DIOXIDE	13463-67-7	Chemical Manufacturer Rec Guid	TWA(as respirable dust):5 mg/m3	
TITANIUM DIOXIDE	13463-67-7	US Dept of Labor - OSHA	TWA(as total dust):15 mg/m3	
VINYL MONOMER	2235-00-9	Manufacturer determined	TWA:0.1 ppm(0.57 mg/m3)	
TETRAHYDROFURFURYL ACRYLATE	2399-48-6	Manufacturer determined	TWA:0.1 ppm(0.64 mg/m3);STEL:0.3 ppm(1.91 mg/m3)	
SILICA	7631-86-9	Chemical Manufacturer Rec Guid	TWA(as respirable dust):3 mg/m3	
SILICA, AMORPHOUS	7631-86-9	US Dept of Labor - OSHA	TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.	

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists

American Indust. Hygiene Assoc : American Industrial Hygiene Association

Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines

US Dept of Labor - OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Engineering controls

: Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust /fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

Personal protective equipment

Respiratory Protection	: An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half face piece or full face piece air-purifying respirator suitable for organic vapors For questions about suitability for a specific application, consult with your respirator manufacturer.
Eye Protection	: Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Indirect Vented Goggles
Hand Protection /Skin Protection	: Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Gloves made from the following material(s) are recommended: Polymer laminate Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

9. Physical and Chemical Properties

Appearance	- Physical state	: liquid
	- Color	: White
Odor		: Acrylate odor
Odor threshold		: No Data Available
pH		: Not Applicable
Melting point/freezing point		: Not Applicable
Initial boiling point and boiling range		: > 95 °C No Data Available
Flash Point		: 95 °C [Test Method: Closed Cup]

Evaporation rate	: No Data Available
Flammability (solid, gas)	: Not Applicable
Upper/lower flammability or explosive limits	: No Data Available
Vapor pressure	: No Data Available
Vapor density	: No Data Available
Relative density	: No Data Available
Specific gravity	: 1.15 g/cm3 [Ref Std: WATER=1]
Solubility(ies);	: No Data Available
Partition coefficient: n-octanol/water	: No Data Available
Auto-ignition temperature	: No Data Available
Decomposition temperature	: No Data Available
Viscosity	: 20 centipoise [@ 25 ºC]
VOC	: No Data Available

10. Stability and Reactivity

Reactivity	: This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.
Chemical stability	: Stable
Possibility of hazardous reactions	: Hazardous polymerization may occur.
Conditions to avoid	: Heat
Incompatible materials	: Strong oxidizing agents

Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5. Hazardous Decomposition or By-Products.

11. Toxicological Information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of

exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

Information on Toxicological effects

Inhalation

: Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
Vapors released during curing may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
May cause target organ effects after inhalation.

Ingestion

: May be harmful if swallowed.
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

skin and eye contact

Skin : Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye : Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.
Vapors released during curing may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Germ Cell Mutagenicity

: No Data Available

Carcinogenicity

: Contains a chemical or chemicals which can cause cancer.

National Toxicology Program (NTP) Report on Carcinogens (latest edition)

Substance name	CAS No.	
No Data Available		

International Agency for Research on Cancer (IARC)

Agent	CAS No.	Group
TITANIUM DIOXIDE	13463-67-7	Grp. 2B: Possible human carc.

Occupational Safety and Health Standards(OSHA)

§ 1910.1003 13 Carcinogens (4-Nitrobiphenyl, etc.).

Substance name	CAS No.
No Data Available	

Toxic to Reproduction

: Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Specific Target Organ Toxicity (Single Exposure)

: No Data Available

Specific Target Organ Toxicity (Repeated Exposure)

: Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Numerical measures of toxicity

[Acute Toxicity]

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE 3,124.8 mg/kg
ISOBORNYL ACRYLATE	Dermal	Rabbit	LD50 > 5,000 mg/kg
ISOBORNYL ACRYLATE	Ingestion	Rat	LD50 4,350 mg/kg
PHENOXY ETHYL ACRYLATE			Data not available or insufficient for classification
TITANIUM DIOXIDE	Dermal	Rabbit	LD50 > 10,000 mg/kg
TITANIUM DIOXIDE	Inhalation-Dust/ Mist (4 hours)	Rat	LC50 > 6.82 mg/l
TITANIUM DIOXIDE	Ingestion	Rat	LD50 > 10,000 mg/kg
TETRAHYDROFURFURYL ACRYLATE	Ingestion	Rat	LD50 551 mg/kg
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
VINYL MONOMER	Ingestion	Rat	LD50 1,400 mg/kg
ACRYLIC MONOMER	Ingestion	Rat	LD50 15,400 mg/kg

SUBSTITUTED AMINE OLIGOMER			Data not available or insufficient for classification
SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
SILICA	Inhalation-Dust/ Mist (4 hours)	Rat	LC50 > 0.691 mg/l
SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

[Skin Corrosion/Irritation]

Name	Species	Value
ISOBORNYL ACRYLATE	Rabbit	Minimal irritation
PHENOXY ETHYL ACRYLATE		Data not available or insufficient for classification
TITANIUM DIOXIDE	Rabbit	No significant irritation
TETRAHYDROFURFURYL ACRYLATE	Rabbit	Irritant
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Rabbit	No significant irritation
VINYL MONOMER	Rabbit	Minimal irritation
ACRYLIC MONOMER	Rabbit	No significant irritation
SUBSTITUTED AMINE OLIGOMER		Data not available or insufficient for classification
SILICA	Rabbit	No significant irritation

[Eye Damage/Irritation]

Name	Species	Value
ISOBORNYL ACRYLATE	Rabbit	Mild irritant
PHENOXY ETHYL ACRYLATE		Data not available or insufficient for classification
TITANIUM DIOXIDE	Rabbit	No significant irritation
TETRAHYDROFURFURYL ACRYLATE	Rabbit	Severe irritant
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Rabbit	No significant irritation
VINYL MONOMER	Rabbit	Severe irritant
ACRYLIC MONOMER	Rabbit	Mild irritant
SUBSTITUTED AMINE OLIGOMER		Data not available or insufficient for classification

SILICA	Rabbit	No significant irritation

[Sensitization – Respiratory]

Name	Species	Value
ISOBORNYL ACRYLATE		Data not available or insufficient for classification
PHENOXY ETHYL ACRYLATE		Data not available or insufficient for classification
TITANIUM DIOXIDE		Data not available or insufficient for classification
TETRAHYDROFURFURYL ACRYLATE		Data not available or insufficient for classification
2,4,6-Trimethylbenzoyldiphenylphosphine oxide		Data not available or insufficient for classification
VINYL MONOMER		Data not available or insufficient for classification
ACRYLIC MONOMER		Data not available or insufficient for classification
SUBSTITUTED AMINE OLIGOMER		Data not available or insufficient for classification
SILICA		Data not available or insufficient for classification

[Sensitization – Skin]

Name	Species	Value
ISOBORNYL ACRYLATE		Data not available or insufficient for classification
PHENOXY ETHYL ACRYLATE		Data not available or insufficient for classification
TITANIUM DIOXIDE	Human and animal	Not sensitizing
TETRAHYDROFURFURYL ACRYLATE	Human and animal	Some positive data exist, but the data are not sufficient for classification
2,4,6-Trimethylbenzoyldiphenylphosphine oxide		Data not available or

		insufficient for classification
VINYL MONOMER		Data not available or insufficient for classification
ACRYLIC MONOMER	Guinea pig	Sensitizing
SUBSTITUTED AMINE OLIGOMER		Data not available or insufficient for classification
SILICA	Human and animal	Not sensitizing

[Germ Cell Mutagenicity]

Name	Route	Value
ISOBORNYL ACRYLATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
PHENOXY ETHYL ACRYLATE		Data not available or insufficient for classification
TITANIUM DIOXIDE	In Vitro	Not mutagenic
TITANIUM DIOXIDE	In vivo	Not mutagenic
TETRAHYDROFURFURYL ACRYLATE	In Vitro	Not mutagenic
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	In Vitro	Not mutagenic
VINYL MONOMER	In Vitro	Not mutagenic
ACRYLIC MONOMER	In Vitro	Not mutagenic
SUBSTITUTED AMINE OLIGOMER		Data not available or insufficient for classification
SILICA	In Vitro	Not mutagenic

[Carcinogenicity]

Name	Route	Species	Value
ISOBORNYL ACRYLATE			Data not available or insufficient for classification
PHENOXY ETHYL ACRYLATE			Data not available or insufficient for classification
TITANIUM DIOXIDE	Ingestion	Multiple animal species	Not carcinogenic

TITANIUM DIOXIDE	Inhalation	Rat	Carcinogenic
TETRAHYDROFURFURYL ACRYLATE			Data not available or insufficient for classification
2,4,6-Trimethylbenzoyldiphenylpho			Data not available or insufficient for classification
VINYL MONOMER			Data not available or insufficient for classification
ACRYLIC MONOMER			Data not available or insufficient for classification
SUBSTITUTED AMINE OLIGOMER			Data not available or insufficient for classification
SILICA	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification

[Toxic to Reproduction]

Name	Route	Species	Value	Test Result	Exposure Duration
ISOBORNYL ACRYLATE		Data not available or insufficient for classification			
PHENOXY ETHYL ACRYLATE		Data not available or insufficient for classification			
TITANIUM DIOXIDE		Data not available or insufficient for classification			
TETRAHYDROFURFURYL ACRYLATE		Data not available or insufficient for classification			
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Ingestion	Toxic to male reproduction	Rat	NOAEL 100 mg/kg/day	90 days
VINYL MONOMER		Data not available or insufficient for classification			
ACRYLIC MONOMER		Data not available or			

		insufficient for classification			
SUBSTITUTED AMINE OLIGOMER		Data not available or insufficient for classification			
SILICA	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
SILICA	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
SILICA	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

[Specific Target Organ Toxicity (Single Exposure)]

Name	Route	Target Organ(s)	Species	Value	Test Result	Exposure Duration
ISOBORNYL ACRYLATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	official classification	NOAEL Not available	
PHENOXY ETHYL ACRYLATE			Data not available or insufficient for classification			
TITANIUM DIOXIDE			Data not available or insufficient for classification			
TETRAHYDRO FURFURYL ACRYLATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

2,4,6-Trimethylbenzoyldiphenylphosphine oxide			Data not available or insufficient for classification			
VINYL MONOMER	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	
ACRYLIC MONOMER	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	Irritation Positive	
SUBSTITUTED AMINE OLIGOMER			Data not available or insufficient for classification			
SILICA			Data not available or insufficient for classification			

[Specific Target Organ Toxicity (Repeated Exposure)]

Name	Route	Target Organ(s)	Species	Value	Test Result	Exposure Duration
ISOBORNYL ACRYLATE			Data not available or insufficient for classification			
PHENOXY ETHYL ACRYLATE			Data not available or insufficient for classification			
TITANIUM DIOXIDE	Inhalation	respiratory system	Some positive data exist, but the data are	Rat	LOAEL 0.010 mg/l	2 years

			not sufficient for classification			
TITANIUM DIOXIDE	Inhalation	pulmonary fibrosis	All data are negative	Human	NOAEL Not available	occupational exposure
TETRAHYDROFURFUR YL ACRYLATE			Data not available or insufficient for classification			
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Ingestion	skin | blood | liver | kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	90 days
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Ingestion	nervous system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	90 days
VINYL MONOMER	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.006 mg/l	90 days
VINYL MONOMER	Inhalation	blood | liver | kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.18 mg/l	90 days
VINYL MONOMER	Inhalation	eyes	All data are negative	Rat	NOAEL 0.18 mg/l	90 days
VINYL MONOMER	Ingestion	liver	Some positive data exist, but	Rat	NOAEL 260	3 months

			the data are not sufficient for classification		mg/kg/day	
ACRYLIC MONOMER			Data not available or insufficient for classification			
SUBSTITUTED AMINE OLIGOMER			Data not available or insufficient for classification			
SILICA	Inhalation	respiratory system | silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

[Aspiration Hazard]

Name	Value
ISOBORNYL ACRYLATE	Not an aspiration hazard
PHENOXY ETHYL ACRYLATE	Not an aspiration hazard
TITANIUM DIOXIDE	Not an aspiration hazard
TETRAHYDROFURFURYL ACRYLATE	Not an aspiration hazard
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Not an aspiration hazard
VINYL MONOMER	Not an aspiration hazard
ACRYLIC MONOMER	Not an aspiration hazard
SUBSTITUTED AMINE OLIGOMER	Not an aspiration hazard
SILICA	Not an aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

12. Ecological Information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

: Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

13. Disposal Considerations

Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).
Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

14. Transport Information

UN number	: 3082
UN proper shipping name	: Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	: 9
Packing group	: Ⅲ

15. Regulatory Information

SARA TitleⅢ

Section 311/312 (40 CFR 370) : Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 (40 CFR 372)

Ingredient	CAS No.	% by Wt
PHENOXY ETHYL ACRYLATE (GLYCOL ETHERS)	48145-04-6	10 - 30

California Proposition 65

Ingredient	C.A.S. No.	Classification
TOLUENE	108-88-3	Female reproductive toxin
TOLUENE	108-88-3	Developmental Toxin
TITANIUM DIOXIDE	13463-67-7	Carcinogen

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
WARNING: This product contains a chemical known to the State of California to cause cancer.
Other

The components of this material are in compliance with the provisions of Japan Industrial Safety and Health Law.
Certain restrictions may apply. Contact the selling division for additional information.
The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.
The components of this product are in compliance with the chemical notification requirements of TSCA.

16. Other Information

NFPA Hazard Classification
Health: 2 Flammability: 1 Instability: 1 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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