



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 21-Feb-2023 Revision Number 1.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer FUJIFILM Wake Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Supplier FUJIFILM Wake Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Emergency telephone number Recommended uses and restrictions on use For research use only GHS classification Classification Classification of the substance or mixture Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Picograms Signal word None Hazard statements - Precautionary statements-{Prevention} · Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Precautionary statements-{Prevention} · Not a plicable Precautionary statements-{Prevention} · Not applicable Precautionary statements-{Disposal} · Not applicable Precautionary statements-{Disposal} · Not applicable Others Other bazards Not available Single Substance or Mixture Substance	Product Name	trans	-2-Undecenal			
1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +816-6203-3741 Fax: +816-6203-3741 Fax: +816-6203-3741 Fax: +816-6203-3741 For research use only For research use only Single Substance or mixture according to the Globally Harmonized System (GHS) Precautionary statements-(Prevention) Not applicable Precautionary statements-(Response) Not applicable Precautionary statements-(Disposal) Not applicable Preca	Product Code	217-0	00752			
1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-3741 / +81-3-3270-8571 For research use only Recommended uses and restrictions on use +81-6-6203-3741 / +81-3-3270-8571 For research use only GHS classification Classification of the substance or mixture Not a hazardous substance or mixture Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Pictograms Signal word None Hazard statements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Precautionary statements-(Prevention) • Not applicable Precautionary statements-(Response) • Not applicable Precautionary statements-(Storage) • Not applicable Precautionary statements-(Disposal) • Not applicable Precautionary statements-(Disposal) • Not applicable Others Other for the substance or Mixture Single Substance or Mixture Substance Formula CH3(CH2)7CH:CHCHO Chemical Name Weight-% Molecular weight ENCS Itams-2-Undecenal 90.0	Manufacturer	1-2 Do Chuo-ł Phone Fax: +ł	shomachi 3-Chome ku, Osaka 540-8605, J : +81-6-6203-3741 81-6-6203-5964	apan		
For research use only Section 2: HAZARDS IDENTIFICATION GHS classification Classification of the substance or mixture Classification of the substance or mixture according to the Globally Harmonized System (GHS) Pictograms Signal word None Hazard statements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Pictograms Signal word None Hazard statements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Precautionary statements-(Prevention) • Not a phicable Precautionary statements-(Response) • Not applicable Precautionary statements-(Storage) • Not applicable Others Other hazards Not available Section 3: COMPOSITION/INFORMATION ON INGREDIENTS Single Substance or Mixture Substance Formula CH3(CH2)7CH:CHCHO Chemical Name Weight-% Molecular weight ENCS ISHL No. CAS RN (2)-2464 (2)-2464 53448-07-0	Supplier	1-2 Do Phone	shomachi 3-Chome, C : +81-6-6203-3741		0-8605, Japan	
restrictions on use Section 2: HAZARDS IDENTIFICATION GHS classification Classification of the substance or mixture Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Pictograms Signal word None Hazard statements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Precautionary statements-(Prevention) • Not applicable Precautionary statements-(Response) • Not applicable Precautionary statements-(Storage) • Not applicable Precautionary statements-(Disposal) • Not applicable Precautionary statements-(Disposal) • Not applicable Others Other hazards Not available Section 3: COMPOSITION/INFORMATION ON INGREDIENTS Single Substance or Mixture Substance Formula CH3(CH2)7CH:CHCHO Chemical Name Weight-% Molecular weight ENCS						

Impurities and/or Additives: Not a

Not applicable

Section 4: FIRST AID MEASURES

Inhalation

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

Skin contact

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

Eye contact

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

Ingestion

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

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

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

Special extinguishing method

No information available

Special protective actions for

fire-fighters

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

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

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

Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed. Absorb the product flowing out on the water to soak the absorber.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and

scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

Safety handling precautions

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

Storage

Safe storage conditions	
Storage conditions	Keep container protect from light, store
-	in well-ventilated place at room temperature (preferably cool). Keep container tightly
	closed. Packed with an inert gas.
Safe packaging material	Glass
Incompatible substances	Strong oxidizing agents
-	

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

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

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal protective equipment
Respiratory protection
Hand protection
Eye protection
Skin and body protection
General hygiene considerations
Handlo in accordance with good

Protective mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	Colorless - yellow
Turbidity	clear
Appearance	liquid
Odor	characteristic odor
Melting point/freezing point	no data available
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	120 °C
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	Ethanol and acetone : Very soluble . water : practically
	insoluble,or insoluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	0.840-0.850 g/ml (20°C)
Vapour density	no data available
Particle characteristics	no data available

Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 May be altered by light.

 Hazardous reactions
 None under normal processing

 Conditions to avoid
 Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity	no data available no data available no data available no data available no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data no data available

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

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

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

Contaminated container and contaminated packaging

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

Section 14: TRANSPORT INFORMATION

ADR/RID

Not regulated

UN number Proper shipping name: UN classfication

Subsidiary hazard class Packing group Marine pollutant	Not applicable
IMDG	Not regulated
UN number	-
Proper shipping name:	
UN classfication	
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
	Not regulated
UN number	-
Proper shipping name: UN classfication	
Subsidiary hazard class	
Packing group Environmentally Hazardous	Not applicable
Substance	
Curotunoo	

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed -
Japanese regulations	
Fire Service Act	Category IV, Class III petroleums, dangerous grade 3
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	tNot applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
<u>(2023/4/1~)</u>	Net evelopela
Export Trade Control Order	Not applicable

Section 16: OTHER INFORMATION

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

Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless

specified in the text. GHS Classification is according to JIS Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet